	1		
-	- 1	0	-

1631194	0.3219004	t-complex-associated-testis-expressed 1-like 1
366834 839580 245485 815501 2017403 281476 130835	0.3214849 0.3211799 0.3210873 0.3209345	•
42076 810998 75859 760299 344720 345670	0.3179036 -1.8328232 -1.7010462 -1.5196431	TRK-fused gene DKFZP434C131 protein N-myc downstream-regulated gene 2 dickkopf (Xenopus laevis) homolog 3 glycophorin C (Gerbich blood group) ESTs, Moderately similar to I59348 CCAAT binding transcription factor CBF subunit C - rat [R.norvegicus]
200814	-1.4325283	membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
1161564 788234 1558675	-1.3891189 -1.3761312 -1.3749762	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein SRY (sex determining region Y)-box 10
45099		pellino (Drosophila) homolog 2 regucalcin (senescence marker protein-30)
		troponin I, skeletal, fast ataxia-telangiectasia group D-associated protein
810002	-1.3038896	Homo sapiens, clone MGC:19762 IMAGE:3636045, mRNA, complete cds
1569187	-1.2971252	heparan sulfate (glucosamine) 3-O-sulfotransferase 4
	-1.2738321	caveolin 1, caveolae protein, 22kD ADP-ribosylation factor-like 7 disabled (Drosophila) homolog 2 (mitogen-responsive phosphoprotein)

- 108 -

796542	-1.2625621	interleukin 11 receptor, alpha ets variant gene 5 (ets-related molecule) Homo sapiens mRNA; cDNA DKFZp564J0323 (from clone DKFZp564J0323)
753071	-1.2529315	Homo sapiens cDNA: FLJ22528 fis, clone HRC12825
		folate receptor 1 (adult) hypothetical protein FLJ21044 similar to Rbig1
		crystallin, alpha B Homo sapiens mRNA; cDNA DKFZp564H1916 (from clone DKFZp564H1916)
490023 298122	-1.2114805 -1.1962478	lipoma HMGIC fusion partner-like 2 hypothetical protein MGC2648 frizzled (Drosophila) homolog 7 caspase 7, apoptosis-related cysteine protease
160192	-1.1751869	ESTs, Weakly similar to 2004399A chromosomal protein [H.sapiens]
22917	-1.1590598	Homo sapiens mRNA; cDNA DKFZp761M0111 (from clone DKFZp761M0111)
		nGAP-like protein Homo sapiens cDNA: FLJ22667 fis, clone HSI08385
289760	-1.1390686	ESTs, Highly similar to T00391 hypothetical protein KIAA0612 [H.sapiens]
1556433 838478	-1.1222978 -1.1175047	hypothetical protein GRO3 oncogene neurocalcin delta myosin regulatory light chain 2, smooth muscle isoform
811088 1554167 67741 2106144 2056139	-1.0851546 -1.0818834 -1.0705249 -1.067765 -1.0673271	serum amyloid A4, constitutive ephrin-B3 hypothetical protein FLJ14529 PP2135 protein regulated in glioma LIM domain protein latent transforming growth factor beta binding protein 2

	1	$\Delta \Delta$	
_	1	09	-

345034	-1.0600859	small inducible cytokine subfamily B (Cys-X-Cys), member 14 (BRAK)
666870	-1.0463245	,
		intercellular adhesion molecule 2
878836	-1.03/352	secretory granule, neuroendocrine protein 1 (7B2 protein)
52419	-1.0368509	Friedreich ataxia region gene X123
		runt-related transcription factor 3
		suppression of tumorigenicity 5
132857		Homo sapiens mRNA; cDNA DKFZp586N1323 (from clone
102007	1.0001000	DKFZp586N1323)
500040	4 0000004	
529843	-1.0036824	ESTs, Moderately similar to JC5238 galactosylceramide-like
		protein, GCP [H.sapiens]
2504881	-1.000863	signal transducer and activator of transcription 5A
69002	-0 9960916	PPAR(gamma) angiopoietin related protein
03002	-0.0000010	1 1 At (gainina) angiopoletin related protein
841308	-0.9953716	myosin, light polypeptide kinase
488404	-0.9880176	Homo sapiens clone TUA8 Cri-du-chat region mRNA
077574	0.0044500	1214 4 4700
		KIAA1706 protein
18/1116	-0.9821709	Homo sapiens mRNA; cDNA DKFZp434C1714 (from clone
		DKFZp434C1714); partial cds
897963	-0.9775616	phosphatidic acid phosphatase type 2A
		Homo sapiens mRNA; cDNA DKFZp586M2022 (from clone
		DKFZp586M2022)
400405	0.0005047	
	-0.9665947	
1405/4	-0.9652218	small inducible cytokine subfamily D (Cys-X3-Cys), member 1
		(fractalkine, neurotactin)
740620	-0.96496	tropomyosin 2 (beta)
1473471	-0.9623482	KIAA0194 protein
1635320	-0.9586226	amiloride-sensitive cation channel 2, neuronal
440050	0.057040	
		nuclear factor I/B
814/98	-0.9559895	aldehyde dehydrogenase 1 family, member A3
823871	-0.9429443	SPARC-like 1 (mast9, hevin)
		purinergic receptor (family A group 5)
	0.0111002	parmorgio receptor (ranimy / t group o)
-1 71205		

- 110 -

270826	-0.9389651	Homo sapiens cDNA FLJ13329 fis, clone OVARC1001795
	-0.9280245 -0.9276916	ribosomal protein L13
811149 786069 208718		chromosome 9 open reading frame 3 beta-site APP-cleaving enzyme annexin A1
416676 248631		pellino (Drosophila) homolog 1 aminomethyltransferase (glycine cleavage system protein T)
76182 756708		hypothetical protein DKFZp761F241 potassium intermediate/small conductance calcium-activated channel, subfamily N, member 4
712401	-0.9068788	phosphoinositide-3-kinase, catalytic, delta polypeptide
625399	-0.9066615	hypothetical protein similar to beta-transducin family
162308 796181 133236 415816	-0.8910356 -0.8888496 -0.8888316 -0.8887425	growth arrest-specific 6 RNA binding motif protein, X chromosome
1636166 1856063 34093 2028722	-0.8845211 -0.8833091 -0.8800259 -0.8800075	hypothetical protein FLJ22297 KIAA0668 protein tweety (Drosophila) homolog 1 EST osteoblast specific factor 2 (fasciclin I-like) eukaryotic translation elongation factor 1 alpha 1
884462	-0.8743987	forkhead box O1A (rhabdomyosarcoma) Down syndrome critical region gene 1 NGFI-A binding protein 1 (EGR1 binding protein 1)
882248 770935 41208 768571	-0.8700104 -0.865227	transgelin hypothetical protein FLJ13511 bone morphogenetic protein 1 SRY (sex determining region Y)-box 8

- 111 -

781017	-0.8526926	early growth response 2 (Krox-20 (Drosophila) homolog)
811837 815737	-0.848137 -0.8444322	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle
814826	-0.8443265	ESTs
767164	-0.842198	ESTs, Weakly similar to MUC2_HUMAN MUCIN 2 PRECURSOR [H.sapiens]
71087	-0.8416951	v-maf musculoaponeurotic fibrosarcoma (avian) oncogene family, protein F
283023	-0.8413949	chemokine (C-X3-C) receptor 1
160609	-0.8405669	, , ,
814443	-0.8385965	hypothetical protein MGC3232
142259		tumor necrosis factor alpha-inducible cellular protein containing leucine zipper domains; Huntingtin interacting protein L; transcrption factor IIIA-interacting protein
990881	-0.8335353	
•		Homo sapiens mRNA; cDNA DKFZp434A115 (from clone DKFZp434A115)
470393	-0.830751	matrix metalloproteinase 7 (matrilysin, uterine)
170000	-0.000701	matrix metalloproteinase / (matriysin, uterine)
	-0.8306579	
772913	-0.8306579	calreticulin
772913 741139	-0.8306579	calreticulin eyes absent (Drosophila) homolog 2
772913 741139 27769	-0.8306579 -0.8299902	calreticulin eyes absent (Drosophila) homolog 2 ESTs
772913 741139 27769 544639	-0.8306579 -0.8299902 -0.8298821 -0.8275232	calreticulin eyes absent (Drosophila) homolog 2 ESTs
772913 741139 27769 544639 1587710 757191	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs
772913 741139 27769 544639 1587710 757191 80344	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor
772913 741139 27769 544639 1587710 757191 80344 1635062	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein
772913 741139 27769 544639 1587710 757191 80344 1635062	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor
772913 741139 27769 544639 1587710 757191 80344 1635062 119290	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like
772913 741139 27769 544639 1587710 757191 80344 1635062 119290	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like serum amyloid A1
772913 741139 27769 544639 1587710 757191 80344 1635062 119290 161456 1909935	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756 -0.8215502	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like serum amyloid A1 ESTs
772913 741139 27769 544639 1587710 757191 80344 1635062 119290 161456 1909935	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756 -0.8215502 -0.8169271 -0.8163443	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like serum amyloid A1 ESTs
772913 741139 27769 544639 1587710 757191 80344 1635062 119290 161456 1909935 1257131 868396	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756 -0.8215502 -0.8169271 -0.8163443 -0.808677	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like serum amyloid A1 ESTs ESTs tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
772913 741139 27769 544639 1587710 757191 80344 1635062 119290 161456 1909935 1257131 868396	-0.8306579 -0.8299902 -0.8298821 -0.8275232 -0.8252065 -0.8247438 -0.8243418 -0.8243024 -0.8224756 -0.8215502 -0.8169271 -0.8163443 -0.808677	calreticulin eyes absent (Drosophila) homolog 2 ESTs ESTs period (Drosophila) homolog 1 ESTs interleukin 7 receptor DKFZP586A011 protein cortic al thymocyte receptor (X. laevis CTX) like serum amyloid A1 ESTs ESTs ESTs tyrosine 3-monooxygenase/tryptophan 5-monooxygenase

Tity Dit. 40377200

	1555924 416434 322561 132711 70245	-0.8025163 -0.8006527 -0.7970805 -0.7962294 -0.795375	four and a half LIM domains 3 CSR1 protein SCN Circadian Oscillatory Protein (SCOP) ribosomal protein L31 Kruppel-like factor 5 (intestinal) Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 50374 ESTs, Moderately similar to LONG-CHAIN FATTY ACID TRANSPORT PROTEIN [M.musculus]
	250883 346545 1878409 530958 40027	-0.7887371 -0.7869766 -0.7809384 -0.7779473	ubiquitin-activating enzyme E1-like laminin, beta 1 catechol-O-methyltransferase smoothened (Drosophila) homolog
	1474337 85840 290378	-0.7766266 -0.7754435 -0.7751825 -0.7736287	spinal cord-derived growth factor-B phosphorylase, glycogen; brain nicotinamide N-methyltransferase podocalyxin-like kallikrein 8 (neuropsin/ovasin) ATP-binding cassette, sub-family B (MDR/TAP), member 1
	343695		tensin hypothetical protein FLJ10875 tumor necrosis factor receptor superfamily, member 1B
	767765	-0.7691523	GTP-binding protein overexpressed in skeletal muscle
-	681992	-0.7691299	Homo sapiens cDNA FLJ13384 fis, clone PLACE1001062, highly similar to Homo sapiens mRNA for lysine-ketoglutarate reductase/saccharopine dehydrogenase
	139660 869450 162308 209537	-0.7677153 -0.7659922 -0.7654139 -0.763749	RalGDS-like gene ESTs ribosomal protein L11 zinc finger protein 221 KIAA0603 gene product
	-1 71205		

- 113 -

		hypothetical gene ZD52F10 T-cell lymphoma invasion and metastasis 2
32489 1519147	-0.7571259 -0.7548183	collagen, type XVI, alpha 1 hypothetical protein DKFZp566A1524
		synaptogyrin 1 receptor tyrosine kinase-like orphan receptor 1
		dystrobrevin, beta placental growth factor, vascular endothelial growth factor-related protein
188335	-0.7399294	egf-like module containing, mucin-like, hormone receptor-like sequence 2
1161775 490668	-0.7380353 -0.7364434	·
1474900 378813	-0.736252 -0.7346408	keratin 15 secretory leukocyte protease inhibitor (antileukoproteinase)
1630990 280907 742562 73252	-0.7307519 -0.730047	ribosomal protein L29 Kruppel-type zinc finger protein chromosome 16 open reading frame 5 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)
26566 1471829		protein-O-mannosyltransferase 1 uncharacterized hypothalamus protein HSMNP1
289428	-0.7270494	neurotrophic tyrosine kinase, receptor, type 2
898092 34150 24958	-0.7263513	connective tissue growth factor ESTs Homo sapiens mRNA; cDNA DKFZp434C2016 (from clone DKFZp434C2016)
725680	-0.7197488	transcription factor AP-2 gamma (activating enhancer-binding protein 2 gamma)
1686766	-0.7192745	complement component 3 Rag D protein integral membrane protein 3

- 114 -

431231	-0.7182897	EGF-containing fibulin-like extracellular matrix protein 2
1908834	-0.7177051	ubiquitin A-52 residue ribosomal protein fusion product 1
207735	-0.7167416	serine (or cysteine) proteinase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
754157	-0.7165332	Homo sapiens mRNA; cDNA DKFZp434K2172 (from clone DKFZp434K2172)
35828	-0.7163689	diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor)
1946448	-0.7150027	,
470148	-0.712917	ESTs
840944	-0.7099353	early growth response 1
809784	-0.7095414	kallikrein 6 (neurosin, zyme)
877827		ribosomal protein S27a
32493	-0.7093777	integrin, alpha 6
813520	-0.7092422	EphB3
782501	-0.7086066	hypothetical protein PP1665
27544	-0.708383	prominin (mouse)-like 1
184022	-0.7070266	amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)
323238	-0.7042807	GRO1 oncogene (melanoma growth stimulating activity, alpha)
488956	-0.70192	CUG triplet repeat, RNA-binding protein 2
1926246	-0.701769	ESTs, Moderately similar to T46371 hypothetical protein DKFZp434P1018.1 [H.sapiens]
325365	-0.7012106	HIV-1 rev binding protein 2
221846		checkpoint suppressor 1
1870305	-0.6958213	heat shock 27kD protein 2
277044	-0.6947855	KIAA1183 protein
503335	-0.6944661	hypothetical protein FLJ11196
757873	-0.6940266	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
2306682	-0.6934667	A kinase (PRKA) anchor protein (yotiao) 9
		E74-like factor 5 (ets domain transcription factor)
		nucleoporin 88kD KIAA0172 protein

- 115 -

46129	-0.6919169	ESTs, Highly similar to T17245 hypothetical protein DKFZp586J0917.1 [H.sapiens]
270917 789382 611481 35300 50892	-0.6898974 -0.6894079 -0.688788 -0.6887497	····•
345056 2783721		KIAA1404 protein cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)
178137 1626996		ribosomal protein L34 c-fos induced growth factor (vascular endothelial growth factor D)
188388 133518		integrin, alpha 10 microtubule-associated protein, RP/EB family, member 2
839796	-0.6807912	candidate tumor suppressor p33 ING1 homolog
726582 50586 491763 52096	-0.6794282 -0.679034	actin-related protein 3-beta KIAA1545 protein interleukin 1, beta platelet-derived growth factor receptor, alpha polypeptide
		collagen, type VI, alpha 1 alcohol dehydrogenase 1C (class I), gamma polypeptide
41869	-0.6747514 -0.6740833	ribosomal protein S25 hypothetical protein FLJ11017 KIAA0015 gene product Homo sapiens clone HH409 unknown mRNA
773373 308539		hypothetical protein MGC14258 Homo sapiens cDNA FLJ12777 fis, clone NT2RP2001720
343760	-0.6724144	SH3 domain binding glutamic acid-rich protein like 2
769959 2252954		collagen, type IV, alpha 2 enhancer of filamentation 1 (cas-like docking; Crk-associated substrate related)
70201 sd-71385	-0.6675012	mitochondrial solute carrier

- 116 -

	-0.6671218 -0.6670507	inositol 1,4,5-triphosphate receptor, type 2
		membrane protein, palmitoylated 1 (55kD)
1486082	-0.6635259	heparin-binding growth factor binding protein
1470278	-0.6633411	hypothetical protein FLJ21841
	-0.6624986	
		hypothetical protein DKFZp762A227
		lipoma HMGIC fusion partner
752668		KIAA0440 protein
837870	-0.65/186	proline arginine-rich end leucine-rich repeat protein
744918	-0.6552361	Homo sapiens mRNA; cDNA DKFZp761l0911 (from clone DKFZp761l0911)
39600	-0.6540275	adenylate kinase 5
		ubiquitin specific protease 4 (proto-oncogene)
4005444	0.054004	Augus a sandath allal mandens d'une augus a
774078		tumor endothelial marker 1 precursor
415233		leiomodin 1 (smooth muscle) ribosomal protein L37a
307029		ribosomal protein L37a
78946		Homo sapiens pyruvate dehydrogenase kinase 4 mRNA, 3'
,		untranslated region, partial sequence
785733	-0 6476493	hypothetical protein FLJ12892
415415		EST, Moderately similar to RL1X HUMAN 60S RIBOSOMAL
		PROTEIN L18A [H.sapiens]
858167	-0.6453859	fatty-acid-Coenzyme A ligase, long-chain 4
823714	-0.642903	nuclear receptor co-repressor/HDAC3 complex subunit
193913	-0.6425581	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
220395	-0.6418175	hypothetical protein FLJ23293 similar to ARL-6 interacting protein-2
840942	-0.6383764	major histocompatibility complex, class II, DP beta 1
725308	-0.6371261	ras inhibitor
1492147	-0.636656	ribosomal protein S4, X-linked
	-0.6364598	
75078	-0.6362307	ESTs
sd-71385		

- 117 -

796152	-0.6356106	Homo sapiens cDNA FLJ11685 fis, clone HEMBA1004934	
190059	-0.634814	guanine nucleotide binding protein (G protein), gamma 7	
840511 81409	-0.6341661 -0.6338327	vimentin GABA(A) receptor-associated protein like 1	
745490 530036 755855	-0.6324794	hypothetical protein FLJ20607 hypothetical protein FLJ13078 solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6	
785538	-0.6289951	Homo sapiens mRNA; cDNA DKFZp434N2116 (from clone DKFZp434N2116)	
		secretory carrier membrane protein 1	
	-0.6263561 -0.6253276	fibroblast growth factor receptor 1 (fms-related tyrosine kinase 2, Pfeiffer syndrome)	
774754	-0.6243946	catenin (cadherin-associated protein), beta 1 (88kD)	
1572298	-0.6228686	CD3Z antigen, zeta polypeptide (TiT3 complex)	
		ribosomal protein S10	
		inositol polyphosphate-1-phosphatase	
		Cdc42 effector protein 3	
		epidermal growth factor (beta-urogastrone)	
241489		adrenergic, beta-2-, receptor, surface	
2316441	-0.6206597	ras homolog gene family, member C	
1712825	-0.6204409		
52724		hypothetical protein FLJ20241	
150897	-0.6188264	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3	
823851	-0.6182341	AE-binding protein 1	
810057		vasoactive intestinal peptide receptor 1	
81316	-0.6176265	ESTs	
298134	-0.6152731	frizzled (Drosophila) homolog 1	
		KIAA0300 protein	
1898758	-0.6126872	BCE-1 protein	
250797	-0.6124667	hypothetical protein FLJ20038	
754040	-0.610807	NS1-associated protein 1	
1584628	-0.6102937	alpha-actinin-2-associated LIM protein	
sd-71385			

- 118 -

172783 824799	-0.6054867	hypothetical protein FLJ10390 ART-4 protein erythrocyte membrane protein band 4.1-like 2
342349	-0.603487	mitogen-activated protein kinase kinase kinase 14
67067	-0.6003961	Homo sapiens mRNA; cDNA DKFZp564O222 (from clone DKFZp564O222)
1533710	-0.5988282	ortholog of mouse integral membrane glycoprotein LIG-1
1707637 1634832 1609625	-0.5964339 -0.5931096 -0.5920312	hypothetical protein ESTs class I cytokine receptor selectin P ligand mammalian inositol hexakisphosphate kinase 2
897720	-0.5904719 -0.5888169	alpha2,3-sialyltransferase trophinin metallothionein 1E (functional) mitogen-activated protein kinase 8 interacting protein 2
1651906 564801		hypothetical protein FLJ23544 Homo sapiens cDNA: FLJ21409 fis, clone COL03924
248886	-0.5823315	rab3 GTPase-activating protein, non-catalytic subunit (150kD)
250654	-0.5815576	secreted protein, acidic, cysteine-rich (osteonectin)
1968422	-0.5802058	Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1968422
712829 752837		LIM domain only 2 (rhombotin-like 1) Homo sapiens mRNA for FLJ00074 protein, partial cds
346902	-0.5794362	ESTs, Weakly similar to ALU2_HUMAN ALU SUBFAMILY SB SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]
	-0.5788147 -0.5784457	thioredoxin v-jun avian sarcoma virus 17 oncogene homolog
2271240	-0.5782432	hypothetical protein

- 119 -

120106	-0.5770131 -0.5768989	endothelin 3 caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase) B-cell associated protein ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]	
1032831 460403		gycosyltransferase laminin, gamma 2 (nicein (100kD), kalinin (105kD), BM600 (100kD), Herlitz junctional epidermolysis bullosa))	
489755	-0.5730453	a disintegrin and metalloproteinase domain 12 (meltrin alpha)	
502753 68534		angiopoietin 2 Homo sapiens cDNA: FLJ22290 fis, clone HRC04405	
		CDC-like kinase 3 ESTs, Highly similar to T12495 hypothetical protein DKFZp434H071.1 [H.sapiens]	
140071 788518		frizzled-related protein peroxisomal membrane protein 3 (35kD, Zellweger syndrome)	
462939 240248	-0.5686324 -0.5685596 -0.5675649 -0.5662456 -0.5660209		
1636360	-0.5629882	DKFZP727C091 protein hypothetical protein FLJ14957 ESTs, Moderately similar to MAS2_HUMAN MANNAN- BINDING LECTIN SERINE PROTEASE 2 PRECURSOR [H.sapiens]	
1522734	-0.5618289	inositol polyphosphate phosphatase-like 1 ESTs ubiquitin-like 1 (sentrin)	

- 120 -

491519 -0.561401 Homo sapiens clone 24775 mRNA sequence -0.561312 casein kinase 2, alpha prime polypeptide 208969 -0.561267 EST 788558 -0.5600825 KIAA1479 protein 785530 -0.5600048 integrin, alpha 1 1473131 -0.5594101 transducin-like enhancer of split 2, homolog of Drosophila E(sp1)812959 -0.5591846 KIAA1638 protein 868169 -0.5584677 lipoprotein lipase 322233 -0.5578912 ribosomal protein, large, P0 -0.5577761 aryl hydrocarbon receptor nuclear translocator-like 50519 299720 -0.5565137 215000 -0.555725 vasoactive intestinal peptide receptor 1 51981 -0.5554908 ribosomal protein L7a 703541 -0.5534921 KIAA1858 protein 238907 -0.5534598 hypothetical protein, clone Telethon(Italy_B41)_Strait02270_FL142 415613 -0.5528761 DHHC1 protein 282404 -0.5528532 Homo sapiens mRNA for KIAA1671 protein, partial cds 344588 -0.55146 kallikrein 5 -0.5513143 RNA polymerase I transcription factor RRN3 746373 491186 -0.5507413 Homo sapiens cDNA: FLJ23131 fis, clone LNG08502 75059 -0.5504962 poly(A)-binding protein, cytoplasmic 1-like -0.5504113 special AT-rich sequence binding protein 1 (binds to nuclear 345764 matrix/scaffold-associating DNA's) 1577920 -0.5496944 ESTs 288748 -0.5493871 Homo sapiens, clone MGC:5352 IMAGE:3048106, mRNA, complete cds -0.5487174 Homo sapiens cDNA: FLJ21721 fis, clone COLF0381 810097 755881 -0.5473964 aquaporin 5 1568391 -0.5467858 plastin 3 (T isoform) 290866 -0.5467613 v-raf-1 murine leukemia viral oncogene homolog 1 503671 -0.5461871 Homo sapiens cDNA FLJ14368 fis, clone HEMBA1001122 2388571 -0.5459823 A kinase (PRKA) anchor protein 8 sd-71385

P A T E N T Atty Dkt: 485772004300

- 121 -

739193 756372		cellular retinoic acid-binding protein 1 retinoic acid receptor responder (tazarotene induced) 2	
53081 486179	-0.5446617 -0.5443525	ESTs Homo sapiens cDNA FLJ10205 fis, clone HEMBA1004954	
2213824	-0.5412089 -0.5406089	hypothetical protein FLJ12806 protease inhibitor 3, skin-derived (SKALP) hypothetical protein PP1044 acyl-Coenzyme A dehydrogenase, very long chain	
341759	-0.5403406	lung type-I cell membrane-associated glycoprotein	
309449 42681 299720	-0.5388424	ribosomal protein S4, Y-linked NY-REN-25 antigen eukaryotic translation elongation factor 1 alpha 1	
	-0.5383385 -0.5382125	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD) TBP-associated factor 172 ribosomal protein L35 eukaryotic translation elongation factor 1 alpha 1	
1534493 595637	-0.5376323 -0.5373697	ESTs Homo sapiens mRNA; cDNA DKFZp586N012 (from clone DKFZp586N012)	
725622 233679 785933	-0.5356625	ESTs hypothetical protein FLJ22362 sushi-repeat-containing protein, X chromosome	
825356	-0.533771	Homo sapiens cDNA FLJ11997 fis, clone HEMBB1001458	
767982	-0.533231	Homo sapiens, clone IMAGE:4134852, mRNA, partial cds	
277627		Human SH3 domain-containing protein SH3P18 mRNA, complete cds	
460126 346688 712023 24729 1590021 809998 sd-71385	-0.5315035 -0.5302372 -0.5302207 -0.5302114	KIAA0819 protein melanoma inhibitory activity AT-binding transcription factor 1 cholinergic receptor, muscarinic 1 ets variant gene 6 (TEL oncogene)	

- 122 -

811779	-0.5291718	phosphoinositide-3-kinase, regulatory subunit, polypeptide 1 (p85 alpha)
488130	-0.5289721	Homo sapiens cDNA FLJ20767 fis, clone COL06986
159462 1570427 2308346 1881774	-0.5280955 -0.5268833 -0.5265891	serum constituent protein hypothetical protein MGC4309 cyclin-dependent kinase 2 KIAA1678 protein kinase C and casein kinase substrate in neurons 2
	-0.5253542 -0.5253354	myosin IE Rac/Cdc42 guanine exchange factor (GEF) 6
753620 80374		insulin-like growth factor binding protein 6 pyruvate dehydrogenase (lipoamide) alpha 1
	-0.5233873 -0.5224833	transgelin 2 Homo sapiens mRNA; cDNA DKFZp761P0114 (from clone DKFZp761P0114)
855061	-0.5203046	PRO1659 protein vascular endothelial growth factor B Homo sapiens, clone MGC:13446 IMAGE:4275731, mRNA, complete cds
155896 842939		ORF adenosine deaminase, RNA-specific, B1 (homolog of rat RED1)
753301		reticulon 2 carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein) lactate dehydrogenase C
1911663	-0.5168962	
868308 809998 771004 842896	-0.5157133 -0.5144681 -0.5144276 -0.5137089	peptidylprolyl isomerase E (cyclophilin E) ribosomal protein S23 amylase, alpha 2A; pancreatic KIAA1201 protein hypothetical protein DKFZp762L0311 tumor necrosis factor receptor superfamily, member 6
sd-71385		

- 123 -

415191 2306752 469306 824602 307687 1637296 1358393 504940	-0.5123647 -0.5113377 -0.5107682 -0.5106552 -0.5105214 -0.5090372 -0.508056	ESTs KIAA0161 gene product stathmin-like 2 gastrin-releasing peptide interferon, gamma-inducible protein 16 protease, serine, 16 (thymus) ribosomal protein S24 mitogen-activated protein kinase kinase 3 transcription factor AP-4 (activating enhancer-binding protein 4)
220293	-0.5078291	Homo sapiens cDNA: FLJ21800 fis, clone HEP00618
1601845 240620 43679	-0.5074894 -0.5065007 -0.5063146 -0.505654 -0.5046972 -0.5044691	SUMO-1-specific protease Ca2+-promoted Ras inactivator vascular Rab-GAP/TBC-containing ESTs acidic protein rich in leucines histone deacetylase 5 hypothetical protein FLJ23138 Human DNA sequence from clone 889N15 on chromosome Xq22.1-22.3. Contains part of the gene for a novel protein similar to X. laevis Cortical Thymocyte Marker CTX, the possibly alternatively spliced gene for 26S Proteasome subunit p28 (Ankyrin repeat prote
593840 51448 383501 2018423 796984	-0.5031992 -0.502319 -0.501705	DKFZP564K1964 protein activating transcription factor 3 regulator of G-protein signalling 9 death-associated protein kinase 2 cytochrome b-245, beta polypeptide (chronic granulomatous disease)
		LIM domain kinase 2 ets variant gene 4 (E1A enhancer-binding protein, E1AF)
770212	-0.4981295	chitinase 3-like 1 (cartilage glycoprotein-39)
48518	-0.4966991	ATP-binding cassette, sub-family A (ABC1), member 5
85634	-0.4961026	complement component 1, s subcomponent

- 124 -

341763	-0.4953701	caspase 5, apoptosis-related cysteine protease
1417886		ESTs hypothetical protein FLJ23239 Homo sapiens cDNA: FLJ22130 fis, clone HEP19632
	-0.491862	glutaminyl-tRNA synthetase acetyl-CoA synthetase ESTs, Weakly similar to S57447 HPBRII-7 protein [H.sapiens]
253884	-0.4908497 -0.4898644 -0.4897811	phosphatidic acid phosphatase type 2B ESTs sprouty (Drosophila) homolog 2 Human BAC clone GS1-99H8 hypothetical protein FLJ10633
1711456 815142	-0.4881454	H factor (complement)-like 1 spastic ataxia of Charlevoix-Saguenay (sacsin)
327432	-0.4870045	sortilin-related receptor, L(DLR class) A repeats-containing semaphorin Y ESTs, Weakly similar to T00366 hypothetical protein KIAA0669
		[H.sapiens]

Example VI: Genes for discriminating between normal and ADH (non-malignant) versus DCIS and IDC (malignant)

As shown in Table 5 below, 400 genes were identified as being able to discriminate between normal and ADH (non-malignant) versus DCIS and IDC (malignant).

Table 5

CloneID	Weight	Description
796469	1.4207633	HSPC150 protein similar to ubiquitin-conjugating
		enzyme
488964	1.3447179	H2A histone family, member O

sd-71385

_	1	25	_
	_		

1505038	1.3277637	hypothetical protein FLJ20171
1500000	1.2926116	H2B histone family, member B
1554549	1.2787033	hydroxyacyl glutathione hydrolase
812238	1.2664748	hypothetical protein MGC4692
35147	1.2581066	ESTs, Weakly similar to unnamed protein product [H.sapiens]
122077	1.2576139	putative membrane protein
788654	1.2573483	growth factor receptor-bound protein 2
595037	1.2486446	retinoic acid induced 3
565319	1.2155833	Homo sapiens mRNA; cDNA DKFZp564B1264 (from clone DKFZp564B1264)
283919	1.2112507	H2A histone family, member L
1917941	1.1872008	purine-rich element binding protein B
359887	1.1837896	translocase of inner mitochondrial membrane 17 (yeast) homolog A
471568	1.1673113	hematological and neurological expressed 1
290841	1.1670252	H2B histone family, member A
796694	1.1580364	baculoviral IAP repeat-containing 5 (survivin)
366132	1.1440486	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kD
823598	1.1425746	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12
1323448	1.1309009	cysteine-rich protein 1 (intestinal)
810711	1.1074523	stearoyl-CoA desaturase (delta-9-desaturase)
741474	1.0870449	glucose phosphate isomerase
745606	1.0663136	hypothetical protein PP591
2054635	1.0613961	proteasome (prosome, macropain) subunit, alpha type, 7
178805	1.0513873	Human DNA sequence from clone RP5-850E9 on chromosome 20. Contains part of the gene for a novel C2H2 type zinc finger protein similar to Drosophila Scratch (Scrt), Slug and Xenopus Snail, a novel gene similar to Drosophila CG6762, STSs, GSSs and five CpG
347373	1.0454939	transcription elongation factor B (SIII), polypeptide 1 (15kD, elongin C)

- 126 -

199403	1.0142329	lectin, galactoside-binding, soluble, 8 (galectin 8)
814054 2029173	1.0130821 1.0094499	KIAA0040 gene product ESTs, Weakly similar to N-WASP [H.sapiens]
209066 782428 769921 470061 796723	1.0066096 1.0008279 0.9944462 0.9920108 0.9915885	KIAA0250 gene product ubiquitin carrier protein E2-C seven in absentia (Drosophila) homolog 2 Homo sapiens clone CDABP0014 mRNA sequence glutamate-ammonia ligase (glutamine synthase)
2322367	0.9859632	reticulon 4
280375	0.9793036	PRO2000 protein
2016908	0.969649	ESTs, Weakly similar to CA13_HUMAN COLLAGEN ALPHA 1(III) CHAIN PRECURSOR [H.sapiens]
1858892	0.9669022	hypothetical protein MGC4825
46248	0.9628117	ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)
2014034	0.9619198	methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase
898032	0.9547022	KIAA0097 gene product
725454	0.9476507	CDC28 protein kinase 2
79520	0.9457391	RAB2, member RAS oncogene family
810558	0.943041	proteasome (prosome, macropain) 26S subunit, ATPase, 4
272529	0.9423688	phosphomannomutase 2
122241	0.939204	proteasome (prosome, macropain) subunit, beta type, 2
469686	0.9381847	Ric (Drosophila)-like, expressed in many tissues
624667 488202	0.9336899 0.932881	CGI-92 protein ESTs, Weakly similar to YZ28_HUMAN HYPOTHETICAL PROTEIN ZAP128 [H.sapiens]
825470 1640821	0.9274271 0.920874	topoisomerase (DNA) II alpha (170kD) ESTs, Weakly similar to I78885 serine/threonine- specific protein kinase [H.sapiens]

- 127 -

686552 2016648	0.9182272 0.917373	golgi phosphoprotein 1 Homo sapiens mRNA; cDNA DKFZp434N1728 (from clone DKFZp434N1728)
1911343	0.9110591	RAB26, member RAS oncogene family
781097	0.9100493	reticulon 3
244801	0.908481	Rho guanine exchange factor (GEF) 11
754628	0.9061145	ESTs
1574058	0.9058211	1-acylglycerol-3-phosphate O-acyltransferase 2 (lysophosphatidic acid acyltransferase, beta)
753299	0.9019921	hypothetical protein FLJ10504
811774	0.9014801	CGI-49 protein
595213	0.8978322	hypothetical protein
868128	0.8970146	JM4 protein
810124	0.8891272	platelet-activating factor acetylhydrolase, isoform
		lb, gamma subunit (29kD)
66406	0.8888639	hypothetical protein DKFZp762E1312
1636092	0.8841788	hypothetical protein FLJ20657
1869201	0.8825788	hypothetical protein MGC2745
625923	0.8821749	phosphoenolpyruvate carboxykinase 2
		(mitochondrial)
1492238	0.8804306	HSPC003 protein
731044	0.8716644	glutaredoxin 2
839682	0.8696528	ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13)
951233	0.8614727	proteasome (prosome, macropain) subunit, beta type, 3
843195	0.8606568	phosphoserine phosphatase
288999	0.8593924	small protein effector 1 of Cdc42
51773	0.8588635	hypothetical protein MGC3077
209066	0.8582298	serine/threonine kinase 15
1474955	0.8573467	TATA box binding protein (TBP)-associated
		factor, RNA polymerase II, N, 68kD (RNA-binding protein 56)
2043167	0.8551193	BCL2-associated athanogene 3
742707	0.8515067	ESTs, Weakly similar to MUC2_HUMAN MUCIN 2 PRECURSOR [H.sapiens]
743589	0.8514377	ESTs, Weakly similar to T2D3_HUMAN TRANSCRIPTION INITIATION FACTOR TFIID 135 KDA SUBUNIT [H.sapiens]

- 128 -

704414	0.8498631	small nuclear ribonucleoprotein polypeptides B and B1
2309073	0.8484971	frizzled (Drosophila) homolog 5
2052113	0.8477245	hypothetical protein FLJ10903
686172	0.846207	KIAA0008 gene product
150003	0.8447372	hypothetical protein FLJ13187
705064	0.8401441	transforming, acidic coiled-coil containing protein
70000-1		3
1709791	0.8397779	BAI1-associated protein 1
1469425	0.8391993	SRY (sex determining region Y)-box 22
429799	0.8386406	hypothetical protein FLJ21939 similar to 5- azacytidine induced gene 2
720075	0.8385313	meningioma expressed antigen 5 (hyaluronidase)
729975	0.0303313	memigiona expressed anagon e (nyalalemase)
1393018	0.8376676	general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD)
1492463	0.8360771	selenoprotein X, 1
2028949	0.8358024	hypothetical protein PRO1855
789012	0.8351735	fibulin 2
470124	0.8347241	RAD1 (S. pombe) homolog
1409509	0.8339967	troponin T1, skeletal, slow
1605426	0.8317254	hypothetical protein FLJ13352
44292	0.831599	Homo sapiens mRNA; cDNA DKFZp434C107 (from clone DKFZp434C107)
1435003	0.8311727	tumor suppressing subtransferable candidate 1
503215	0.8286483	pilin-like transcription factor
504308	0.8199799	hypothetical protein FLJ10540
785707	0.8176557	protein regulator of cytokinesis 1
1500162	0.8155519	ESTs
149355	0.8134342	translocating chain-associating membrane protein
1845169	0.8131362	RAB35, member RAS oncogene family
869375	0.808792	isocitrate dehydrogenase 2 (NADP+),
		mitochondrial
1492426	0.8032542	chromosome 19 open reading frame 3
782513	0.8030042	interferon, alpha-inducible protein (clone IFI-6-16)
813281	0.8016742	WW domain-containing protein 1
814378	0.8015236	serine protease inhibitor, Kunitz type, 2

- 129 -

700792	0.8005506	cyclin-dependent kinase inhibitor 3 (CDK2- associated dual specificity phosphatase)
340558	0.7990715	actin related protein 2/3 complex, subunit 5 (16 kD)
842994	0.7983201	cathepsin Z
138189	0.7953361	Wolfram syndrome 1 (wolframin)
289978	0.7931469	ubiquitin-like 4
2019223	0.7893602	mitochondrial ribosomal protein L17
2110511	0.7863117	artemin
814528	0.7845635	Homo sapiens cDNA: FLJ22139 fis, clone
014020	0.7043033	HEP20959
1572051	0.7816689	peroxisomal long-chain acyl-coA thioesterase
1573251	0.7010009	peroxisornal long onain doys oor tamedoterate
773922	0.7799164	KIAA0005 gene product
172517	0.7779159	hippocalcin-like 1
564981	0.7745626	ESTs
1420370	0.7726877	biliverdin reductase B (flavin reductase (NADPH))
1 12001 0	5 ,, , 2 , 5 , , ,	
308466	0.771216	GTP-binding protein Sara
199645	0.769591	nicastrin
1422338	0.7690604	ribonucleotide reductase M2 polypeptide
1474424	0.7689082	Homo sapiens cDNA FLJ12758 fis, clone NT2RP2001328
813751	0.7665427	sialyltransferase 4C (beta-galactosidase alpha- 2,3-sialytransferase)
131094	0.7626373	Homo sapiens cDNA: FLJ21587 fis, clone COL06946
842980	0.762412	developmentally regulated GTP-binding protein 1
212542	0.7585053	Homo sapiens cDNA FLJ12900 fis, clone NT2RP2004321
108425	0.7581954	
811761	0.7578696	Nijmegen breakage syndrome 1 (nibrin)
241348	0.757138	prenylcysteine lyase
810725	0.7561061	ATPase, H+ transporting, lysosomal (vacuolar
		proton pump) 21kD
1460110	0.7559869	proteasome (prosome, macropain) subunit, beta
120749	0.7545697	type, 5 ESTs, Moderately similar to KIAA1215 protein
120149	0.1343031	[H.sapiens]
827171	0.7543905	ESTs
<i>ULI</i> 11 1	0.1010000	

- 130 -

39884	0.7526496	IMP (inosine monophosphate) dehydrogenase 1
124298	0.7507816	microsomal glutathione S-transferase 3
753378	0.7492212	hypothetical protein FLJ22649 similar to signal peptidase SPC22/23
210862	0.7483198	acyl-Coenzyme A oxidase 1, palmitoyl
785766	0.7476331	hypothetical protein
1553306	0.7471557	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
470099	0.7443747	HT002 protein; hypertension-related calcium- regulated gene
83363	0.7435058	protein-L-isoaspartate (D-aspartate) O- methyltransferase
489351	0.7422879	hypothetical protein DKFZp566J2046
810612	0.7419597	S100 calcium-binding protein A11 (calgizzarin)
825585	0.741258	tubulin-specific chaperone e
1456348	0.7401571	N-acetylneuraminic acid phosphate synthase; sialic acid synthase
1473922	0.7399948	actin related protein 2/3 complex, subunit 3 (21 kD)
150314	0.739762	lysophospholipase l
897806	0.7388301	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
811585	0.738212	huntingtin (Huntington disease)
685516	0.7378926	putative G protein-coupled receptor
76605	0.7376829	nesca protein
1476053	0.7367106	RAD51 (S. cerevisiae) homolog (E coli RecA homolog)
221295	0.7342275	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
824879	0.7333071	hypothetical protein MGC11275
768570	0.732628	hypothetical protein FLJ11280
73009	0.731401	ESTs, Weakly similar to A43932 mucin 2
		precursor, intestinal [H.sapiens]
564492	0.7301895	mitochondrial carrier homolog 2
2017415	0.7281714	centromere protein A (17kD)
788654	0.7244749	
488505	0.7242619	accessory proteins BAP31/BAP29
824962	0.7238234	karyopherin alpha 2 (RAG cohort 1, importin alpha 1)

- 131 -

1616253	0.7231756	breast carcinoma amplified sequence 1
1435862	0.723081	antigen identified by monoclonal antibodies 12E7, F21 and O13
786067	0.7228184	cell division cycle 25B
2050827	0.7211304	proteasome (prosome, macropain) 26S subunit, ATPase, 5
248649	0.7210707	hypothetical protein FLJ13910
51532	0.7195798	ADP-ribosylation factor-like 6 interacting protein
727078	0.7184618	Homo sapiens cDNA: FLJ23602 fis, clone LNG15735
37708	0.7163849	hypothetical protein MGC3101
430235	0.7162503	H2B histone family, member Q
897770	0.715754	
292936	0.7154295	hypothetical protein FLJ10468
365738	0.7152855	ESTs
845363	0.714201	non-metastatic cells 1, protein (NM23A) expressed in
809944	0.7139515	KIAA0310 gene product
1631699	0.7115561	valosin-containing protein
813629	0.7102574	YME1 (S.cerevisiae)-like 1
813410	0.7093173	polymerase (RNA) II (DNA directed) polypeptide K (7.0kD)
826256	0.7092586	transmembrane 7 superfamily member 1 (upregulated in kidney)
124331	0.7081481	cleavage and polyadenylation specific factor 5, 25 kD subunit
770845	0.7068283	hexokinase 1
67765	0.7064266	carboxypeptidase M
207288	0.7058528	insulin induced gene 1
1639531	0.7033264	RAB27A, member RAS oncogene family
731023	0.7032815	WD repeat domain 5
756442	0.7016064	P450 (cytochrome) oxidoreductase
358162	0.6999211	protein predicted by clone 23627
782608	0.698569	mitochondrial ribosomal protein L9
509823	0.6982362	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)
345787	0.6981453	highly expressed in cancer, rich in leucine heptad repeats
810402	0.6978141	hypothetical protein

- 132 -

744417 814306 41356	0.6975761 0.6963874 0.6961169	carnitine acetyltransferase tumor protein D52 protein phosphatase 2, regulatory subunit B (B56), alpha isoform
813419	0.6951349	hydroxyacyl-Coenzyme A dehydrogenase, type II
629944 327506	0.6950339 0.6943362	myosin VB Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 327506
768064	0.6936336	cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1
770992 469383 1492780 41569	0.693225 0.6925975 0.6923749 0.691145	chromosome 8 open reading frame 1 Homo sapiens cDNA FLJ14459 fis, clone HEMBB1002409 hypothetical protein FLJ12650
509588	0.6903363	TATA box binding protein (TBP)-associated factor, RNA polymerase II, J, 20kD
144880	0.6902434	hypothetical protein from EUROIMAGE 1759349
789376 268946 810156	0.6883473 0.6881593 0.6879064	thioredoxin reductase 1 WD40 protein Ciao1 deoxythymidylate kinase (thymidylate kinase)
84295 246800 589232 859761	0.6876167 0.6867481 0.6865999 0.6846134	interleukin 1 receptor antagonist hypothetical protein FLJ10803 hypothetical protein FLJ11506 poliovirus receptor-related 2 (herpesvirus entry mediator B)
431505	0.6840493	ESTs, Highly similar to A31026 probable membrane receptor protein [H.sapiens]
109863 770355	0.683291 0.6829507	epithelial membrane protein 2 lanosterol synthase (2,3-oxidosqualene- lanosterol cyclase)
344091 813707 124781 502774 825740 1536006	0.6818771 0.6814476 0.6809199 0.6807524 0.6805157 0.6805004	ESTs regulator of G-protein signalling 16 squalene epoxidase hypothetical protein FLJ20623 DKFZp434J1813 protein ESTs

- 133 -

203003	0.6802818	non-metastatic cells 4, protein expressed in
785616	0.6800658	signal sequence receptor, alpha (translocon- associated protein alpha)
785840	0.6800437	SEC24 (S. cerevisiae) related gene family, member D
256619	0.6797698	hydroxysteroid (17-beta) dehydrogenase 7
2108077	0.6796871	CGI-112 protein
742595	0.6784804	cyclin-dependent kinase 5
1476065	0.6783519	stathmin 1/oncoprotein 18
68636	0.6778817	hypothetical protein MGC2477
564847	0.6770455	ESTs
744047	0.6748419	polo (Drosophia)-like kinase
897813	0.6741253	polyadenylate binding protein-interacting protein
823930	0.6738266	actin related protein 2/3 complex, subunit 1A (41 kD)
236034	0.673506	uncoupling protein 2 (mitochondrial, proton carrier)
743977	0.6729967	Homo sapiens mRNA for TL132
293727	0.6728542	hypothetical protein MGC861
590759	0.672734	sterol-C4-methyl oxidase-like
811024	0.6706275	bone marrow stromal cell antigen 2
785795	0.6683919	hypothetical protein FLJ12910
530310	0.6682042	KIAA0143 protein
1734309	0.666164	sperm associated antigen 4
1898619	0.6651268	hypothetical protein MGC15737
358267	0.6648183	EST, Moderately similar to AF119917 63 PRO2831 [H.sapiens]
753400	0.6633015	CGI-204 protein
292770	0.6609782	Homo sapiens, clone IMAGE:3627860, mRNA, partial cds
884425	0.6608337	chaperonin containing TCP1, subunit 5 (epsilon)
1696757 121251	0.6599512 0.6596925	hypothetical protein KIAA1165 hypothetical protein MGC5576
770785	0.658751	1,2-alpha-mannosidase IC
590774	0.657447	mitogen-activated protein kinase 13
969877	0.6564571	synaptosomal-associated protein, 25kD
415102	0.6562436	cell division cycle 25C
120271	0.6562017	hypothetical protein MGC4692

	1	$\sim \lambda$	
_	- 1	34	_
	1	ノて	

713782	0.6552297	a disintegrin and metalloproteinase domain 15 (metargidin)
49351	0.6551453	SEX gene
488642	0.6541915	ESTs, Weakly similar to I38022 hypothetical protein [H.sapiens]
343607	0.6510034	AD-015 protein
2306987	0.6501071	secreted and transmembrane 1
280249	0.64759	Kruppel-like factor 7 (ubiquitous)
752631	0.6473517	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)
489594	0.645574	hypothetical protein FLJ11565
773188	0.6448143	nuclear receptor subfamily 1, group D, member 2
2015517	0.6441737	hypothetical protein FLJ22237
343731 491524	0.6424907 0.6424448	mitachandrial ribacamal protain 1.12
824524	0.6424446	mitochondrial ribosomal protein L13 UDP-galactose transporter related
593431	0.6422897	ESTs, Moderately similar to CEGT HUMAN
J9J4J1	0.0422031	CERAMIDE GLUCOSYLTRANSFERASE [H.sapiens]
812994	0.6420817	retinoid X receptor, alpha
1631735	0.6404771	Homo sapiens, clone IMAGE:3604336, mRNA, partial cds
278531	0.6404612	cytochrome c oxidase subunit VIc
2302099	0.6386686	sialidase 3 (membrane sialidase)
454896	0.6384516	DnaJ (Hsp40) homolog, subfamily A, member 2
1456701	0.6383709	B-cell CLL/lymphoma 9
2055807	0.638184	protein kinase domains containing protein similar to phosphoprotein C8FW
1518402	0.6378481	KIAA1361 protein
810762	0.6371461	SNARE protein
124447	0.6363079	KIAA1184 protein
49273	0.635859	solute carrier family 27 (fatty acid transporter), member 4
365060	0.6350631	RAB11A, member RAS oncogene family
1591264	0.6337293	transaldolase 1
41698	0.6327738	progesterone binding protein
810316	0.6323393	very long-chain acyl-CoA synthetase; lipidosin
826363	0.6322533	lysophospholipase II

- 135 -

2011515 770675 1461477	0.6319712 0.6315109 0.6300096	DKFZP586B0923 protein Homo sapiens cDNA: FLJ21323 fis, clone COL02374 Homo sapiens mRNA; cDNA DKFZp586l0324
		(from clone DKFZp586I0324)
366834	0.629867	envoplakin
1601947	0.6297475	cytochrome c oxidase subunit VIIa polypeptide 2 (liver)
510575	0.6295917	hypothetical protein FLJ22087
503851	0.6291771	nuclear receptor co-repressor/HDAC3 complex subunit
810063	0.6286184	growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)
754653	0.6277098	cadherin, EGF LAG seven-pass G-type receptor 3, flamingo (Drosophila) homolog
1518890	0.6251884	metallothionein-like 5, testis-specific (tesmin)
784105	0.6244805	ESTs
205049	0.6231646	protein kinase H11; small stress protein-like protein HSP22
325606	0.6225147	hypothetical protein MGC14353
760299	-1.8441097	dickkopf (Xenopus laevis) homolog 3
200814	-1.8295958	membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
1882697	-1.715818	peanut (Drosophila)-like 2
344720	-1.6567437	glycophorin C (Gerbich blood group)
1161564	-1.5877154	desmuslin
45099	-1.566311	regucalcin (senescence marker protein-30)
75859	-1.5303427	N-myc downstream-regulated gene 2
811920	-1.5255258	interleukin 11 receptor, alpha
1569187	-1.4872982	heparan sulfate (glucosamine) 3-O- sulfotransferase 4
796542	-1.4697418	ets variant gene 5 (ets-related molecule)
767202	-1.4573536	latent transforming growth factor beta binding protein 2
285377	-1.4496786	pellino (Drosophila) homolog 2
300632	-1.449587	hypothetical protein FLJ21044 similar to Rbig1

200	
and the control of th	•
Hust.	
ent pro-	:
121	
FE CONTROL OF THE PERSON OF TH	
at a Méant ha ha se add autr to add autr	

160192	-1.4231519	ESTs, Weakly similar to 2004399A chromosomal protein [H.sapiens]
611532	-1.3689616	troponin I, skeletal, fast
813265	-1.3632094	Homo sapiens mRNA; cDNA DKFZp564H1916
0.0200		(from clone DKFZp564H1916)
1469377	-1.359583	lipoma HMGIC fusion partner-like 2
810002	-1.3553375	Homo sapiens, clone MGC:19762
		IMAGE:3636045, mRNA, complete cds
2056139	-1.3506352	LIM domain protein
377275	-1.3392122	ataxia-telangiectasia group D-associated protein
298122	-1.3364021	frizzled (Drosophila) homolog 7
72778	-1.3299927	caspase 7, apoptosis-related cysteine protease
841308	-1.3246996	myosin, light polypeptide kinase
377461	-1.3214357	caveolin 1, caveolae protein, 22kD
1473274	-1.3200174	myosin regulatory light chain 2, smooth muscle isoform
1554167	-1.3141843	hypothetical protein FLJ14529
131839	-1.3048208	folate receptor 1 (adult)
67741	-1.3014364	PP2135 protein
132857	-1.280579	Homo sapiens mRNA; cDNA DKFZp586N1323
		(from clone DKFZp586N1323)
345670	-1.2805684	ESTs, Moderately similar to I59348 CCAAT
		binding transcription factor CBF subunit C - rat
		[R.norvegicus]
781014	-1.2659158	suppression of tumorigenicity 5
289760	-1.2610055	ESTs, Highly similar to T00391 hypothetical
		protein KIAA0612 [H.sapiens]
742685	-1.248683	disabled (Drosophila) homolog 2 (mitogen-
50440	4.04.47770	responsive phosphoprotein)
52419	-1.2447753	Friedreich ataxia region gene X123
838478	-1.2349342	neurocalcin delta
839736	-1.2337192	crystallin, alpha B
1558675	-1.2313679	SRY (sex determining region Y)-box 10
796181	-1.2276581	growth arrest-specific 6
878836	-1.2200837	secretory granule, neuroendocrine protein 1 (7B2 protein)
130201	-1.2181641	intercellular adhesion molecule 2
1917449	-1.217371	serum amyloid A4, constitutive
sd-71385		

- 137 -

22917	-1.2164705	Homo sapiens mRNA; cDNA DKFZp761M0111 (from clone DKFZp761M0111)
1871116	-1.209237	Homo sapiens mRNA; cDNA DKFZp434C1714 (from clone DKFZp434C1714); partial cds
823871	-1.2090693	SPARC-like 1 (mast9, hevin)
811837	-1.2030392	
811848	-1.2011809	hypothetical protein
840266	-1.200789	Homo sapiens cDNA: FLJ22667 fis, clone HSI08385
753071	-1.2005994	Homo sapiens cDNA: FLJ22528 fis, clone HRC12825
2106144	-1.1719133	regulated in glioma
2504881	-1.1674204	signal transducer and activator of transcription 5A
811837	-1.157587	eukaryotic translation elongation factor 1 alpha 1
486683	-1.1548164	Homo sapiens mRNA; cDNA DKFZp564J0323 (from clone DKFZp564J0323)
712139	-1.1491129	ADP-ribosylation factor-like 7
196435	-1.1475545	ESTs
877621	-1.1422087	nGAP-like protein
811088	-1.140941	ephrin-B3
322561	-1.1270333	ribosomal protein L31
712401	-1.1218827	phosphoinositide-3-kinase, catalytic, delta polypeptide
788234	-1.1061158	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
140574	-1.103064	small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin)
490023	-1.1020527	hypothetical protein MGC2648
1584540	-1.0933558	Homo sapiens mRNA; cDNA DKFZp586M2022 (from clone DKFZp586M2022)
1556433	-1.0887923	GRO3 oncogene
47043	-1.0841886	tensin
303109	-1.0807576	purinergic receptor (family A group 5)
343760	-1.0803279	SH3 domain binding glutamic acid-rich protein like 2

- 138 -

248631	-1.0784377	aminomethyltransferase (glycine cleavage system protein T)
740620	-1.071175	tropomyosin 2 (beta)
529843	-1.0698218	ESTs, Moderately similar to JC5238
0200.0		galactosylceramide-like protein, GCP [H.sapiens]
990881	-1.0640807	
80344	-1.0602825	interleukin 7 receptor
625399	-1.0594452	hypothetical protein similar to beta-transducin family
416676	-1.0568729	pellino (Drosophila) homolog 1
416959	-1.0566462	nuclear factor I/B
307029	-1.0497874	ribosomal protein L26
488404	-1.0484323	Homo sapiens clone TUA8 Cri-du-chat region mRNA
291478	-1.0400846	runt-related transcription factor 3
153760	-1.0340645	EphB1
119290	-1.025797	cortic al thymocyte receptor (X. laevis CTX) like
814443	-1.0250673	hypothetical protein MGC3232
757191	-1.0238476	ESTs
208718	-1.0229324	annexin A1
161456	-1.0220494	serum amyloid A1
1587710	-1.0209983	period (Drosophila) homolog 1
160609	-1.0208819	ESTs
593023	-1.0158099	dystrobrevin, beta
1878409	-1.013872	catechol-O-methyltransferase
781017	-1.0125987	early growth response 2 (Krox-20 (Drosophila) homolog)
753162	-1.0119485	KIAA0603 gene product
897963	-1.0075423	phosphatidic acid phosphatase type 2A
505864	-1.0033263	RalGDS-like gene
323780	-1.0027215	Homo sapiens cDNA FLJ11177 fis, clone PLACE1007402
343695	-1.002495	hypothetical protein FLJ10875
277571	-0.9977509	KIAA1706 protein
869450	-0.9934083	ribosomal protein L11
280907	-0.9932806	Kruppel-type zinc finger protein
290378	-0.9932643	podocalyxin-like
1635062	-0.9905245	DKFZP586A011 protein

- 139 -

270826	-0.9896888	Homo sapiens cDNA FLJ13329 fis, clone
		OVARC1001795
1257131	-0.9869928	ESTs

Example VII: Genes for discriminating between ADH and DCIS

As shown in Table 6 below, 350 genes were identified as being able to discriminate between ADH and DCIS. The actual data is shown in Figure 3.

Table 6

ClonelD	Weight	Description
1404774	-0.5685596	parathyroid hormone-like hormone
823871	-0.9429443	SPARC-like 1 (mast9, hevin)
1882697	-1.4318896	peanut (Drosophila)-like 2
140071	-0.5708303	frizzled-related protein
160192		ESTs, Weakly similar to 2004399A chromosomal protein
706540		[H.sapiens]
796542		ets variant gene 5 (ets-related molecule)
611532		troponin I, skeletal, fast
1473274	-1.11/2093	myosin regulatory light chain 2, smooth muscle isoform
469306	-0.5113377	gastrin-releasing peptide
2306697		neuromedin B
132857	-1.0084069	Homo sapiens mRNA; cDNA DKFZp586N1323 (from clone DKFZp586N1323)
2504881	-1.000863	signal transducer and activator of transcription 5A
760299	-1.7010462	dickkopf (Xenopus laevis) homolog 3
293819	-0.4051233	oxidoreductase UCPA
130835	0.3209345	Homo sapiens, Similar to clone FLB3816, clone IMAGE:3454380, mRNA
66532	-0.5773248	endothelin 3
2499829	-0.3619416	zinc finger protein 145 (Kruppel-like, expressed in
85840	0 7754425	promyelocytic leukemia) nicotinamide N-methyltransferase
00040	-0.1104433	modulating in-inculyidatisterase
1 71205		

sd-71385

_	140) .
	$\mathbf{I} \mathbf{T} \mathbf{U}$,

859359 200814	 -0.4669761 quinone oxidoreductase homolog -1.4325283 membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)
825287	-0.2783909 tumor necrosis factor (ligand) superfamily, member 11
202577 2014373 153760 377275	-0.2283149 histamine N-methyltransferase 0.0232775 HNK-1 sulfotransferase -0.9227865 EphB1 -1.3102234 ataxia-telangiectasia group D-associated protein
745490 172783 1558108	-0.6329354 hypothetical protein FLJ20607 -0.6088873 hypothetical protein FLJ10390 0.0044098 ATP-binding cassette, sub-family C (CFTR/MRP), member 8
1587710 141731 490484 504959	-0.8252065 period (Drosophila) homolog 1 -0.4531468 -0.3388325 ESTs -0.1620065 Homo sapiens mRNA; cDNA DKFZp586G0321 (from clone DKFZp586G0321)
1609746	-0.4792809 vitelliform macular dystrophy (Best disease, bestrophin)
882248 1917449 2119838	-0.8700731 transgelin -1.0894686 serum amyloid A4, constitutive -0.3045374 a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 8
841507	0.0247736 surfactant, pulmonary-associated protein A2
813265	-1.2230435 Homo sapiens mRNA; cDNA DKFZp564H1916 (from clone DKFZp564H1916)
767202	-1.0654145 latent transforming growth factor beta binding protein 2
1156538	0.2252628 potassium inwardly-rectifying channel, subfamily J, member
39600 1630990 41208 322561 951008 841308	-0.6540275 adenylate kinase 5 -0.7312981 ribosomal protein L29 -0.865227 bone morphogenetic protein 1 -0.7970805 ribosomal protein L31 -0.2221875 ESTs -0.9953716 myosin, light polypeptide kinase
sd-71385	

- 141 -

119290	-0.8224756 cortic al thymocyte receptor (X. laevis CTX) like
344959 810331 1161775 625399	-0.0998837 gene for serine/threonine protein kinase -0.1389612 quiescin Q6 -0.7380353 villin 1 -0.9066615 hypothetical protein similar to beta-transducin family
1470657 160609 665356	-0.3557985 deiodinase, iodothyronine, type II -0.8405669 ESTs -0.1575968 tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)
1584540	-0.9754693 Homo sapiens mRNA; cDNA DKFZp586M2022 (from clone DKFZp586M2022)
726779 296123	-0.4459955 calponin 1, basic, smooth muscle -0.2814132 Homo sapiens PRO1851 mRNA, complete cds
190059	-0.634814 guanine nucleotide binding protein (G protein), gamma 7
1471829	-0.7275378 uncharacterized hypothalamus protein HSMNP1
2056139 190753 1968422 725390	-1.0673271 LIM domain protein -0.4423669 ESTs -0.5802058 Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 1968422 -0.4620278 glutathione S-transferase pi
814826 878836	-0.8443265 ESTs -1.037352 secretory granule, neuroendocrine protein 1 (7B2 protein)
27769 188388 1597813 1609625 810981 726703	-0.8298821 ESTs -0.6824191 integrin, alpha 10 -0.5406089 hypothetical protein PP1044 -0.5920312 selectin P ligand -0.1805871 hypothetical protein FLJ20699 -0.070084 Homo sapiens clone 23736 mRNA sequence
781014 898222	-1.0161379 suppression of tumorigenicity 5 0.1795078 Homo sapiens clone 24418 mRNA sequence
1475738 1492144 1492147 sd-71385	-0.6753091 ribosomal protein S25 -0.2356446 butyrophilin, subfamily 3, member A2 -0.636656 ribosomal protein S4, X-linked

1711456 1871116	-0.4896574 H factor (complement)-like 1 -0.9821709 Homo sapiens mRNA; cDNA DKFZp434C1714 (from clone DKFZp434C1714); partial cds
344720 45099	-1.5196431 glycophorin C (Gerbich blood group) -1.3515907 regucalcin (senescence marker protein-30)
307029 25763 2502722	-0.6500872 ribosomal protein L26 -0.2725443 ankylosis, progressive (mouse) homolog -0.3315871 loss of heterozygosity, 11, chromosomal region 2, gene A
1665444 165837	-0.651994 tumor endothelial marker 1 precursor -0.3443143 translocase of inner mitochondrial membrane 22 (yeast) homolog
502518 897963 120138 78946	-0.4342228 laminin, beta 2 (laminin S) -0.9775616 phosphatidic acid phosphatase type 2A 0.1570107 J domain containing protein 1 -0.648366 Homo sapiens pyruvate dehydrogenase kinase 4 mRNA, 3' untranslated region, partial sequence
990881 859192	-0.8335353 -0.2265317 vesicle-associated membrane protein 1 (synaptobrevin 1)
712023 855586	-0.5302372 AT-binding transcription factor 1 -0.3944697 nuclear receptor subfamily 3, group C, member 1
52419 432072	-1.0368509 Friedreich ataxia region gene X123 -0.4193898 nuclear factor of activated T-cells, cytoplasmic, calcineurin- dependent 1
1897947	-0.163146 surfactant, pulmonary-associated protein A2
727229	-0.2668972 mitogen-activated protein kinase kinase kinase 4
810358	-0.5403705 acyl-Coenzyme A dehydrogenase, very long chain
154600 755855	 -0.0683999 phospholipase C, delta 1 -0.6298333 solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6
323780	-0.8879854 Homo sapiens cDNA FLJ11177 fis, clone PLACE1007402
230560 283173	-0.1803944 ESTs -0.4293696 EBP50-PDZ interactor of 64 kD
-171205	

- 143 -

265853	-0.3519023 Homo sapiens cDNA FLJ11298 fis, clone PLACE1009794
161456 184022	-0.8215502 serum amyloid A1 -0.7070266 amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)
1636523	-0.1496249 glutathione S-transferase subunit 13 homolog
795730	-0.2892776 signal transduction protein (SH3 containing)
1631682 811837	-0.5162406 peptidylprolyl isomerase E (cyclophilin E) -0.848137
854763	-0.0493902 Homo sapiens cDNA FLJ11341 fis, clone PLACE1010786
50562 46843 178137	-0.0943363 chromosome 8 open reading frame 4 -0.1736687 neuronal Shc adaptor homolog -0.6839022 ribosomal protein L34
1662279	-0.2290724 plakophilin 1 (ectodermal dysplasia/skin fragility syndrome)
1635062 293916 415613 80344 1602798 1910516 740620 277627	-0.8243024 DKFZP586A011 protein -0.3671832 FKBP-associated protein -0.5528761 DHHC1 protein -0.8243418 interleukin 7 receptor -0.4300808 choline kinase-like -0.2845842 ESTs -0.96496 tropomyosin 2 (beta) -0.5329107 Human SH3 domain-containing protein SH3P18 mRNA, complete cds 0.008949 siah binding protein 1; FBP interacting repressor; pyrimidine tract binding splicing factor; Ro ribonucleoprotein-binding protein 1
45578 950710	-0.1295485 mitogen-activated protein kinase kinase 6-0.346361 propionyl Coenzyme A carboxylase, alpha polypeptide
768043 308539	-0.4005598 ECSIT -0.6726187 Homo sapiens cDNA FLJ12777 fis, clone NT2RP2001720
595637	-0.5373697 Homo sapiens mRNA; cDNA DKFZp586N012 (from clone DKFZp586N012)
143661 248631	-0.4713778 netrin 4 -0.9106505 aminomethyltransferase (glycine cleavage system protein T)

- 144 -

826622 51981	0.1339287 KIAA0430 gene product -0.5554908 ribosomal protein L7a
811848	-1.1350073 hypothetical protein
1533710	-0.5988282 ortholog of mouse integral membrane glycoprotein LIG-1
1000710	-0.3900202 Officiolog of mouse integral membrane grycoprotein Ero-1
2017756	-0.2549438 homolog of yeast MOG1
1637296	-0.5105214 ribosomal protein S24
50586	-0.6794282 KIAA1545 protein
877835	-0.5382125 ribosomal protein L35
773319	-0.285447 ribosomal protein S6 kinase, 70kD, polypeptide 1
2014888	-0.2871529 sushi-repeat protein
767495	-0.0366213 GLI-Kruppel family member GLI3 (Greig
707.100	cephalopolysyndactyly syndrome)
774078	-0.6508021 leiomodin 1 (smooth muscle)
868400	-0.4928479 glutaminyl-tRNA synthetase
240620	-0.5065007 vascular Rab-GAP/TBC-containing
1588791	-0.1606643 O-6-methylguanine-DNA methyltransferase
.000.01	
472186	-0.2687871 RAB32, member RAS oncogene family
725143	-0.3410957 hypothetical protein FLJ22418
714472	-0.3677387 KIAA0397 gene product
1854648	0.0089186 hemopexin
855029	0.076972 Ac-like transposable element
197727	-0.3906866 phosphatidylethanolamine N-methyltransferase
1623016	-0.6263561 EST
813841	0.0885625 plasminogen activator, tissue
2783721	-0.6854649 cholinergic receptor, nicotinic, beta polypeptide 1 (muscle)
2100121	0.0004040 offormergio receptor, mootime, beta porypeptiae i (massie)
549933	-0.3547881 interleukin 8
280907	-0.7307519 Kruppel-type zinc finger protein
796181	-0.8888496 growth arrest-specific 6
415233	-0.6506593 ribosomal protein L37a
811920	-1.2690713 interleukin 11 receptor, alpha
415415	-0.646492 EST, Moderately similar to RL1X_HUMAN 60S RIBOSOMAL
	PROTEIN L18A [H.sapiens]
2018807	-0.2989936 KIAA0468 gene product
154999	-0.3876757 hypothetical protein FLJ21007
68557	0.0637586 fatty acid binding protein 1, liver
647763	-0.1436566 ESTs
sd-71385	

- 145 -

1568967 210717 1350439 684582	-0.2938468 ESTs -0.4522432 syndecan 2 (heparan sulfate proteoglycan 1, cell surface-associated, fibroglycan) -0.6740833 KIAA0015 gene product -0.0089016 tryptophanyl tRNA synthetase 2 (mitochondrial)
122394 213136 625458 811162 1926246	-0.049399 guanine nucleotide binding protein (G protein), alpha 15 (Gq class) -0.1139004 BTG family, member 2 -0.2394796 hypothetical protein MGC3234 -0.3821116 fibromodulin -0.701769 ESTs, Moderately similar to T46371 hypothetical protein DKFZp434P1018.1 [H.sapiens]
1554167 811088 72778	-1.0818834 hypothetical protein FLJ14529 -1.0851546 ephrin-B3 -1.1752838 caspase 7, apoptosis-related cysteine protease
220293	-0.5078291 Homo sapiens cDNA: FLJ21800 fis, clone HEP00618
1569187	-1.2971252 heparan sulfate (glucosamine) 3-O-sulfotransferase 4
866866	-0.4801351 Ras association (RalGDS/AF-6) domain family 1
81316 1161564 898044 293001 1570502	-0.6176265 ESTs -1.3891189 desmuslin -0.4691863 metallocarboxypeptidase CPX-1 -0.4472585 hypothetical protein DKFZp434E2318 -0.3314609 Homo sapiens cDNA FLJ12936 fis, clone NT2RP2005018
839796	-0.6807912 candidate tumor suppressor p33 ING1 homolog
380883	-0.4438655 Homo sapiens cDNA FLJ10158 fis, clone HEMBA1003463
180561 869450 47043 810463 149539 200354 771173 270826	-0.3250633 glutathione S-transferase M4 -0.7659922 ribosomal protein L11 -0.7729643 tensin -0.0829995 DKFZP566O084 protein 0.4138942 KIAA1700 -0.0613983 thymidine kinase 2, mitochondrial 0.1757755 mitochondrial ribosomal protein S21 -0.9389651 Homo sapiens cDNA FLJ13329 fis, clone OVARC1001795

A CONTROL OF THE PARTY OF THE P

810017

809838 0.0956351

344168 -0.386185 polymerase (DNA directed), lambda

785967 -0.6049171 erythrocyte membrane protein band 4.1-like 2

511831 -0.2912672 hypothetical protein MGC12936

282404 -0.5528532 Homo sapiens mRNA for KIAA1671 protein, partial cds

- 146 -

730036 -0.079736 Mad4 homolog

298231 -0.3550893 gamma-aminobutyric acid (GABA) B receptor, 1

2106144 -1.067765 regulated in glioma

743880 -0.3262292 KIAA0263 gene product

268234 -0.1535073 Dmx-like 1

280776 -0.2922639 acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain

212078 -0.1831462 integrin, alpha 1

731308 0.5371204 citrate synthase

774471 -0.1753902 laminin, beta 1

811837 -0.8764231 eukaryotic translation elongation factor 1 alpha 1

714437 0.0258281 sema domain, immunoglobulin domain (lg), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B

416959 -0.957248 nuclear factor I/B

-0.7691299 Homo sapiens cDNA FLJ13384 fis, clone PLACE1001062,

highly similar to Homo sapiens mRNA for lysineketoglutarate reductase/saccharopine dehydrogenase

130201 -1.0401997 intercellular adhesion molecule 2

363144 0.1937891 transcription factor AP-2 beta (activating enhancer-binding

protein 2 beta)

857874 -0.3703645 transforming growth factor beta-activated kinase-binding protein 1

377461 -1.2798035 caveolin 1, caveolae protein, 22kD

156363 0.2685238 hypothetical protein FLJ12934

589115 -0.0115547 matrix metalloproteinase 1 (interstitial collagenase)

241489 -0.6212938 adrenergic, beta-2-, receptor, surface

586725 0.0683397 protein phosphatase 2, regulatory subunit B (B56), beta

isoform

- 147 -

283124	-0.7933772 ESTs, Moderately similar to LONG-CHAIN FATTY ACID TRANSPORT PROTEIN [M.musculus]
307328	-0.4022704 hypothetical protein FLJ10948
37449	-0.3539978 GAS2-related on chromosome 22
50892	-0.6887497 Homo sapiens, clone MGC:9913 IMAGE:3870821, mRNA, complete cds
1897944	-0.4855156 ESTs, Weakly similar to T00366 hypothetical protein KIAA0669 [H.sapiens]
377314	-0.561312 casein kinase 2, alpha prime polypeptide
220851	-0.0351418 crystallin, alpha A
322233	-0.3025167
586803	 -0.7423407 placental growth factor, vascular endothelial growth factor- related protein
343695	-0.7706809 hypothetical protein FLJ10875
414999	-0.5002542 ets variant gene 4 (E1A enhancer-binding protein, E1AF)
813823	-0.4463267 lumican
178825	-0.1525189 neurogranin (protein kinase C substrate, RC3)
85582	-0.0716296 target of myb1 (chicken) homolog-like 2
753620	-0.5248489 insulin-like growth factor binding protein 6
1899338	-0.066168 mannosidase, alpha, class 1A, member 2
359250	0.0674486 carbonic anhydrase IV
345034	-1.0600859 small inducible cytokine subfamily B (Cys-X-Cys), member 14 (BRAK)
2164744	-0.2307289 neural cell adhesion molecule 1
613056	-0.3957342 reticulocalbin 1, EF-hand calcium binding domain
1410444	-0.0368027 amphiregulin (schwannoma-derived growth factor)
593023	-0.7516846 dystrobrevin, beta
788511	0.1403148 ribosomal protein S6 kinase, 90kD, polypeptide 1
455269	0.0223607
1650927	-0.1712163 hypothetical protein DKFZp547E052
782427	-0.2818886 inhibin, beta B (activin AB beta polypeptide)
71727	-0.2796517 T-cell acute lymphocytic leukemia 1
840942	-0.6383764 major histocompatibility complex, class II, DP beta 1
825470	0.5218731 topoisomerase (DNA) II alpha (170kD)

- 148 -

595213 796694	0.4824381 hypothetical protein 0.6893307 baculoviral IAP repeat-containing 5 (survivin)
810711	0.9128832 stearoyl-CoA desaturase (delta-9-desaturase)
629944 66406 785840	0.5273447 myosin VB 0.5966701 hypothetical protein DKFZp762E1312 0.5401209 SEC24 (S. cerevisiae) related gene family, member D
210862 84295 429182 705064	0.4683996 acyl-Coenzyme A oxidase 1, palmitoyl 0.3989864 interleukin 1 receptor antagonist 0.2952867 dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit 0.4497555 transforming, acidic coiled-coil containing protein 3
782513	0.4759571 interferon, alpha-inducible protein (clone IFI-6-16)
839682	0.5208954 ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13)
768377	0.3809674 activity-dependent neuroprotective protein
2309073	0.5226599 frizzled (Drosophila) homolog 5
789376	0.4339171 thioredoxin reductase 1
196992 785707 1505038 869375	 -0.1015205 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) 0.4708376 protein regulator of cytokinesis 1 1.1904802 hypothetical protein FLJ20171 0.4827093 isocitrate dehydrogenase 2 (NADP+), mitochondrial
109221	0.3048287 KIAA0286 protein
345787	0.4647372 highly expressed in cancer, rich in leucine heptad repeats
46248	0.640944 ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)
79520	0.6769129 RAB2, member RAS oncogene family
469383	0.5558732 chromosome 8 open reading frame 1
509588	0.4157059 TATA box binding protein (TBP)-associated factor, RNA polymerase II, J, 20kD
292936	0.4217115 hypothetical protein FLJ10468
686172	0.6724684 KIAA0008 gene product
788655	0.2976191 HTPAP protein

770992 1587847	0.3331315 0.1732392 minichromosome maintenance deficient (mis5, S. pombe) 6
79710 2056566	0.4579008 KIAA0174 gene product 0.2341905 integrin, alpha M (complement component receptor 3, alpha; also known as CD11b (p170), macrophage antigen alpha polypeptide)
454339 594226	0.3738929 thiopurine S-methyltransferase 0.403676 Homo sapiens cDNA FLJ14459 fis, clone HEMBB1002409
897813	0.4749348 polyadenylate binding protein-interacting protein 1
824694	0.0268936 protein tyrosine phosphatase type IVA, member 1
725454 79254 1472719	0.6669973 CDC28 protein kinase 2 0.0732432 MHC class I region ORF 0.2550065 SMT3 (suppressor of mif two 3, yeast) homolog 1
2054635	0.7914755 proteasome (prosome, macropain) subunit, alpha type, 7
289978 155806	0.6308861 ubiquitin-like 4 0.2747101 2'-5'-oligoadenylate synthetase 2 (69-71 kD)
147834 26171 2322367 769921 73009	0.4412795 zinc finger protein 217 0.3656147 KIAA0856 protein 0.5832711 reticulon 4 0.6464245 ubiquitin carrier protein E2-C 0.4822587 ESTs, Weakly similar to A43932 mucin 2 precursor, intestinal [H.sapiens] 0.6620303 methylene tetrahydrofolate dehydrogenase (NAD+dependent), methenyltetrahydrofolate cyclohydrolase
359887	0.8692353 translocase of inner mitochondrial membrane 17 (yeast) homolog A
488964 1476065 1422338 268946 686552 149544 770675	0.9569176 H2A histone family, member O 0.289904 stathmin 1/oncoprotein 18 0.5874097 ribonucleotide reductase M2 polypeptide 0.5440003 WD40 protein Ciao1 0.7231319 golgi phosphoprotein 1 0.283642 neuroepithelial cell transforming gene 1 0.454729 Homo sapiens cDNA: FLJ21323 fis, clone COL02374

- 149 -

346257	0.1515899 minichromosome maintenance deficient (S. cerevisiae) 4
429799	0.6915155 hypothetical protein FLJ21939 similar to 5-azacytidine induced gene 2
143997	0.1883447 proteasome (prosome, macropain) 26S subunit, non- ATPase, 10
122241	0.7394284 proteasome (prosome, macropain) subunit, beta type, 2
823598	0.9153521 proteasome (prosome, macropain) 26S subunit, non- ATPase, 12
814632	0.0960611 splicing factor, arginine/serine-rich (transformer 2 Drosophila homolog) 10
810316	0.3732635 very long-chain acyl-CoA synthetase; lipidosin
290841	0.8346933 H2B histone family, member A
347373	0.7563599 transcription elongation factor B (SIII), polypeptide 1 (15kD, elongin C)
700792	0.4949149 cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)
1554549	0.9764206 hydroxyacyl glutathione hydrolase
897770	0.4270685
504308	0.5564295 hypothetical protein FLJ10540
132828	0.2875519 Down syndrome critical region gene 1-like 2
292388	0.112577
1616253	0.567837 breast carcinoma amplified sequence 1
796469	1.0269115 HSPC150 protein similar to ubiquitin-conjugating enzyme
2139152	-0.4373776 Homo sapiens clone 24473 mRNA sequence
130276	0.2154295 Homo sapiens mRNA; cDNA DKFZp586H0324 (from clone DKFZp586H0324)
34149	0.309569 KIAA0227 protein
150003	0.8251408 hypothetical protein FLJ13187
287749	0.3173706 CDC7 (cell division cycle 7, S. cerevisiae, homolog)-like 1
25380	0.164077 ESTs, Moderately similar to JC5238 galactosylceramide-like protein, GCP [H.sapiens]
745083	0.4107735 ubiquitin specific protease 18
810899	0.240336 CDC28 protein kinase 1
768059	0.3139886 hypothetical protein FLJ12619
sd-71385	J 1
J	

Atty Dkt: 485772004300

- 151 -

815026	0.4472842 cleavage stimulation factor, 3' pre-RNA, subunit 3, 77kD
741474 788641	0.7732047 glucose phosphate isomerase 0.3638059 adaptor-related protein complex 1, sigma 2 subunit
2043167 1492780	0.7167431 BCL2-associated athanogene 3 0.6544659 Homo sapiens cDNA FLJ14459 fis, clone HEMBB1002409
2306987	0.4402912 secreted and transmembrane 1
754653	0.4405873 cadherin, EGF LAG seven-pass G-type receptor 3, flamingo (Drosophila) homolog
743810	0.3667087 hypothetical protein MGC2577
126858	0.2389814 sterol O-acyltransferase (acyl-Coenzyme A: cholesterol acyltransferase) 1
2017415	0.43546 centromere protein A (17kD)
280507	0.2846518 hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan syndrome)
67237	0.1406869 ESTs
43833	-0.1197546 diacylglycerol kinase, gamma (90kD)
42076	0.3194462 TRK-fused gene
531319	0.1093932 serine/threonine kinase 12
784129	0.2902598 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
586895	0.2549108 small nuclear ribonucleoprotein polypeptide G

Example VIII: Genes for discriminating between DCIS Grade I and Grade III

As shown in Table 7 below, 350 genes were identified as being able to discriminate between grades of DCIS. The actual data corresponding to this table is shown in Figure 4.

Table 7

ClonelD	Weight	Description
2460159	4.6268975 tyrosine kinase, r	non-receptor, 1
358151	2.8783989 zinc finger protei	n 33a (KOX 31)

- 152 -

795382	2.772572 Rap1 guanine-nucleotide-exchange factor directly activated by cAMP
714472	2.6829714 KIAA0397 gene product
725649	2.6433625 nuclear factor of activated T-cells, cytoplasmic, calcineurin-
123049	dependent 4
51218	2.6200167 ESTs
504959	2.5777963 Homo sapiens mRNA; cDNA DKFZp586G0321 (from clone
004000	DKFZp586G0321)
	Bitti Epocococi,
647397	2.5320153 ESTs
814815	2.4198892 plakophilin 4
279720	2.4136316 ESTs, Moderately similar to A47582 B-cell growth factor
	precursor [H.sapiens]
298231	2.4096172 gamma-aminobutyric acid (GABA) B receptor, 1
172783	2.3339699 hypothetical protein FLJ10390
261609	2.3311051 ESTs, Weakly similar to S65657 alpha-1C-adrenergic receptor
201009	splice form 2 [H.sapiens]
	spince form 2 [in.sapiens]
826668	2.2951137 KIAA0274 gene product
1493383	2.2616737 Homo sapiens mRNA; cDNA DKFZp434H2418 (from clone
,	DKFZp434H2418)
2017756	2.2403622 homolog of yeast MOG1
1455566	2.1756946 adenosine A3 receptor
725321	2.1658095 estrogen receptor 1
180561	2.1393944 glutathione S-transferase M4
32050	2.1165022 Homo sapiens mRNA; cDNA DKFZp586P1124 (from clone
02000	DKFZp586P1124)
215000	· ·
2019750	2.0957741 SEC14 (S. cerevisiae)-like 2
283124	2.0921779 ESTs, Moderately similar to LONG-CHAIN FATTY ACID
	TRANSPORT PROTEIN [M.musculus]
490615	2.0635424 tubulin, gamma 2
666138	2.0625667 hypothetical protein DKFZp761J1523
418129	
1733262	
1588791	2.044069 O-6-methylguanine-DNA methyltransferase
461761	2.035953 angiogenin, ribonuclease, RNase A family, 5

- 153 -

1031592 126415	1.9930012 kinesin protein 9 gene 1.9781057 Homo sapiens mRNA; cDNA DKFZp566H0124 (from clone DKFZp566H0124)
28643 470261 1630990 810981 767495	 1.9733043 hypothetical protein DKFZp564D1378 1.9160486 1.9155421 ribosomal protein L29 1.9132205 hypothetical protein FLJ20699 1.9052671 GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome) 1.8996792 tumor necrosis factor (ligand) superfamily, member 13
1572196	1.8855996 secreted modular calcium-binding protein 2
1706635	1.8754346 bone gamma-carboxyglutamate (gla) protein (osteocalcin)
186301	1.8424458 Homo sapiens cDNA FLJ12924 fis, clone NT2RP2004709
726703	1.842399 Homo sapiens clone 23736 mRNA sequence
214205	1.8416657 Homo sapiens, clone MGC:17687 IMAGE:3865868, mRNA, complete cds
784178	1.822159 Homo sapiens mRNA; cDNA DKFZp586M0723 (from clone DKFZp586M0723)
346902	1.8196723 ESTs, Weakly similar to ALU2_HUMAN ALU SUBFAMILY SB SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]
1367678 190059	1.8184255 KIAA0356 gene product 1.7988757 guanine nucleotide binding protein (G protein), gamma 7
1456937	1.7980645 oviductal glycoprotein 1, 120kD (mucin 9, oviductin)
45578 248631	1.7935215 mitogen-activated protein kinase kinase 6 1.7701919 aminomethyltransferase (glycine cleavage system protein T)
1562231 154466	1.7668811 SET binding protein 1 1.7516237 STIP1 homology and U-Box containing protein 1
2524445 277266	1.7392197 neuronal PAS domain protein 1 1.7307752 Homo sapiens, clone IMAGE:3625550, mRNA, partial cds
741891 sd-71385	1.7297992 RAB2, member RAS oncogene family-like

- 154 -

206217	1.7227658 nuclear receptor subfamily 1, group H, member 3
2028876 730036 1558233 502518 356835 744994 810358	 1.7128178 splicing factor, arginine/serine-rich 5 1.70573 Mad4 homolog 1.7035129 ESTs 1.7027287 laminin, beta 2 (laminin S) 1.7014349 hypothetical protein MGC10500 1.6938348 hypothetical protein FLJ12242 1.6924263 acyl-Coenzyme A dehydrogenase, very long chain
813854 768043 264632 505243 344073	 1.6914133 purine-rich element binding protein A 1.6854123 ECSIT 1.6591646 ESTs 1.6581518 inositol 1,4,5-triphosphate receptor, type 2 1.6571604 ESTs, Weakly similar to K1CI_HUMAN KERATIN, TYPE I CYTOSKELETAL 9 [H.sapiens]
343760	1.6435915 SH3 domain binding glutamic acid-rich protein like 2
1569418	1.6408767 Homo sapiens cDNA FLJ11385 fis, clone HEMBA1000520
202577 823634 839796	1.6393518 histamine N-methyltransferase 1.6366047 ESTs 1.630887 candidate tumor suppressor p33 ING1 homolog
183440 344959 1574252 669359	1.6297915 arylsulfatase A 1.6268043 gene for serine/threonine protein kinase 1.6211224 DKFZP586D0623 protein 1.6174855 Homo sapiens clone 24405 mRNA sequence
74070 1660649 796723	1.6096611 endosulfine alpha 1.6051582 suppressor of white apricot homolog 2 1.6041219 Homo sapiens clone CDABP0014 mRNA sequence
743146 789147 342181 33076 782497	1.597094 hypothetical protein FLJ23403 1.5937127 enolase 2, (gamma, neuronal) 1.5926355 B-cell CLL/lymphoma 2 1.5824352 cholinephosphotransferase 1 1.5804781 Homo sapiens, clone IMAGE:3010666, mRNA, partial cds
470261 809507 712460 sd-71385	1.5751564 SMA5 1.5723669 hypothetical protein FLJ20568 1.5721924 natural killer-tumor recognition sequence

- 155 -

293569 1518402 155072 455269 262804 1492238 364865 2325804	1.5662317 chromosome 1 open reading frame 21 1.5627158 KIAA1361 protein 1.5557559 ESTs 1.5538593 1.5532348 hypothetical protein MGC2941 1.5484044 HSPC003 protein 1.5483958 hypothetical protein FLJ21062 1.5461823 95 kDa retinoblastoma protein binding protein
1635062 344168 1517171 769600 325583 814826 1570502	1.5449944 DKFZP586A011 protein 1.5421405 polymerase (DNA directed), lambda 1.5381921 interleukin 2 receptor, alpha 1.5335878 uracil-DNA glycosylase 2 1.5245817 EST 1.5223296 ESTs 1.5184543 Homo sapiens cDNA FLJ12936 fis, clone NT2RP2005018
511831 124922 2072768 2021882 627248 725503 285312 141731 1456701 898222	1.5183298 hypothetical protein MGC12936 1.5052004 KRAB-zinc finger protein SZF1-1 1.4886791 nuclear receptor coactivator 3 1.4854251 sodium channel, nonvoltage-gated 1, delta 1.4827018 SBBI31 protein 1.476461 D-dopachrome tautomerase 1.4699425 1.469088 1.4668054 B-cell CLL/lymphoma 9 1.4667947 Homo sapiens clone 24418 mRNA sequence
725284 154999 1592530	1.4638006 phosphorylase kinase, gamma 2 (testis) 1.4564204 hypothetical protein FLJ21007 1.4558873 mammalian inositol hexakisphosphate kinase 2
590310	1.4534138 Homo sapiens mRNA; cDNA DKFZp434E2321 (from clone DKFZp434E2321); partial cds
416042	1.446691 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]
2017144 309449 450301	1.4450059 CGI-41 protein 1.4412699 ribosomal protein S4, Y-linked 1.4403678 mutL (E. coli) homolog 3
od_71385	

- 156 -

1492468 121454 743880 1568967 1568989 25274 2413337	1.4375076 DEME-6 protein 1.4361788 arachidonate 12-lipoxygenase 1.4294838 KIAA0263 gene product 1.4109448 ESTs 1.4094472 ESTs 1.4078252 g20 protein 1.4058288 sortilin-related receptor, L(DLR class) A repeats-containing
197913	1.3994468 splicing factor proline/glutamine rich (polypyrimidine tract- binding protein-associated)
292770	1.3952057 Homo sapiens, clone IMAGE:3627860, mRNA, partial cds
143332 809779 138242	1.3875805 neuropeptide Y receptor Y1 1.3848708 KIAA0239 protein 1.3820433 ESTs, Moderately similar to MAS2_HUMAN MANNAN-BINDING LECTIN SERINE PROTEASE 2 PRECURSOR [H.sapiens]
	1.3719341 ESTs 1.3712112 ESTs, Weakly similar to S65824 reverse transcriptase homolog [H.sapiens] 1.3629187 cisplatin resistance associated 1.3597205 KIAA1407 protein
810728 1601845 840882 82173 490965 811162 61061 49630 825659 769921	1.355262 hypothetical gene ZD52F10 1.3533864 Ca2+-promoted Ras inactivator 1.350538 nucleotide binding protein 1.3485351 MYLE protein 1.3476943 ESTs 1.3450626 fibromodulin 1.3437368 hypothetical protein FLJ20585 1.3412751 calcium channel, voltage-dependent, L type, alpha 1D subunit
	protoni LL O

- 157 -

	-2.6550962 sestrin 2 -2.529039 RAD51 (S. cerevisiae) homolog (E coli RecA homolog)
809557	-2.4910488 minichromosome maintenance deficient (S. cerevisiae) 3
150897	-2.4302462 UDP-GlcNAc:betaGal beta-1,3-N- acetylglucosaminyltransferase 3
	-2.37273 seb4D -2.3104815 baculoviral IAP repeat-containing 5 (survivin)
1536236 2017415 210862	-2.3001334 ubiquitin specific protease 10 -2.2971152 hypothetical protein FLJ13154 -2.2748559 centromere protein A (17kD) -2.2408114 acyl-Coenzyme A oxidase 1, palmitoyl -2.2403389 thioredoxin peroxidase (antioxidant enzyme)
	-2.2239527 cadherin 3, type 1, P-cadherin (placental) -2.2203557 cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)
1883327	-2.2093248 ESTs
1523225	-2.1936598 oncostatin M receptor
208718	-2.1882654 annexin A1
1702742	-2.1567809 solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
753378	-2.151145 hypothetical protein FLJ22649 similar to signal peptidase SPC22/23
429222	-2.1351022 CGI-107 protein
292388	-2.1343367
781047	-2.1262682 budding uninhibited by benzimidazoles 1 (yeast homolog)
450854	-2.0819596 craniofacial development protein 1
823598	-2.0693353 proteasome (prosome, macropain) 26S subunit, non-ATPase,
1422338	-2.0689327 ribonucleotide reductase M2 polypeptide
	-2.0601901 transforming, acidic coiled-coil containing protein 3
770675	-2.0272207 Homo sapiens cDNA: FLJ21323 fis, clone COL02374
345787	-1.9992897 highly expressed in cancer, rich in leucine heptad repeats
471196	-1.9985751 integral membrane protein 3

- 158 -

753215	-1.9954476 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
869375	-1.9803724 isocitrate dehydrogenase 2 (NADP+), mitochondrial
229579 1916461 129294 789376	-1.9796507 lysyl-tRNA synthetase -1.9782493 Golgi apparatus protein 1 -1.9736332 hypothetical protein -1.9730334 ESTs -1.9719575 thioredoxin reductase 1 -1.9681938 serine/threonine kinase 17b (apoptosis-inducing)
951117	-1.9577807 eukaryotic translation elongation factor 1 gamma
591465	-1.9484342 hypothetical protein MGC11266 -1.9277062 Homo sapiens, clone MGC:2908 IMAGE:3029644, mRNA, complete cds -1.8999907 translocating chain-associating membrane protein
259950 897770	-1.8958779 hypothetical protein FLJ14991 -1.8887034 -1.8774101 beta-2-microglobulin
504308 727251 897774 1901310 292936 1518591 321354 1903066	-1.8594915 hypothetical protein FLJ20186 -1.8590049 hypothetical protein FLJ10540 -1.8553757 CD9 antigen (p24) -1.8532125 adenine phosphoribosyltransferase -1.8434048 KIAA1209 protein -1.838542 hypothetical protein FLJ10468 -1.8382765 -1.8123042 mitochondrial ribosomal protein L15 -1.8071117 keratin, hair, basic, 1 -1.8004039 ESTs, Moderately similar to ALU1_HUMAN ALU SUBFAMILY J SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]
233464 951241	-1.7995578 interferon stimulated gene (20kD) -1.7978669 epithelial V-like antigen 1 -1.7961406 clone HQ0310 PRO0310p1 -1.7886092 minichromosome maintenance deficient (mis5, S. pombe) 6
624390 sd-71385	-1.7800152 DC13 protein

- 159 -

128711	-1.7791673 anillin (Drosophila Scraps homolog), actin binding protein
	-1.7667341 hypothetical protein FLJ10339 -1.761486 chaperonin containing TCP1, subunit 5 (epsilon)
745394	-1.7583344 Homo sapiens cDNA: FLJ23249 fis, clone COL04196
	-1.7579704 karyopherin alpha 3 (importin alpha 4) -1.7490794 proteasome (prosome, macropain) subunit, beta type, 2
32493	-1.7294781 basement membrane-induced gene -1.7273675 integrin, alpha 6 -1.7216328 DnaJ (Hsp40) homolog, subfamily A, member 2
1876217	-1.7186822 DnaJ (Hsp40) homolog, subfamily A, member 2
	-1.7161709 hypothetical protein FLJ10430 -1.7120206 transcriptional co-activator with PDZ-binding motif (TAZ)
2012523	-1.7104314 fatty acid binding protein 5 (psoriasis-associated)
	-1.7092537 caveolin 2 -1.7047297 glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2)
	-1.6989076 HSPC037 protein -1.6981004 NIMA (never in mitosis gene a)-related kinase 2
144880	-1.6980733 hypothetical protein from EUROIMAGE 1759349
624627 788566	 -1.6910803 polo (Drosophia)-like kinase -1.6888444 ribonucleotide reductase M2 polypeptide -1.6752673 Purkinje cell protein 4 -1.6732706 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide
66902	-1.659943 ESTs -1.6546363 ESTs -1.6505418 inositol polyphosphate-5-phosphatase, 40kD
	-1.6417354 DKFZP586L0724 protein -1.6406565 SEC24 (S. cerevisiae) related gene family, member D

- 160 -

824962	-1.6399941 karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
	-1.6396499 eyes absent (Drosophila) homolog 2 -1.6264151 minichromosome maintenance deficient (S. cerevisiae) 2 (mitotin)
2054635	-1.6254343 proteasome (prosome, macropain) subunit, alpha type, 7
267816	-1.6215197 syndecan binding protein (syntenin) -1.6173276 KIAA0551 protein -1.6083862 origin recognition complex, subunit 6 (yeast homolog)-like
796469	-1.6065509 HSPC150 protein similar to ubiquitin-conjugating enzyme
813256	-1.6027042 ATP-binding cassette, sub-family B (MDR/TAP), member 1
811590 823756	-1.60128 chloride intracellular channel 1 -1.6006729 protease, serine, 2 (trypsin 2) -1.6001102 hypothetical protein FLJ11100 -1.5995448 mitogen inducible 2 -1.597146 capping protein (actin filament) muscle Z-line, alpha 2
377368 1506046	-1.5960999 hypothetical protein MGC2577 -1.5955102 cell death regulator aven -1.5918448 hypothetical protein FLJ10815 -1.5890389 polymyositis/scleroderma autoantigen 1 (75kD)
1604703	-1.5853167 major histocompatibility complex, class I, F
429182	-1.5765159 GATA-binding protein 6 -1.5699689 dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit
826355	-1.5677013 vesicle-associated membrane protein 5 (myobrevin)
746190 131091 665384	-1.5659923 KIAA0227 protein -1.5635857 hypothetical protein DKFZp761B1514 -1.558448 Not56 (D. melanogaster)-like protein -1.5550415 KIAA1609 protein -1.5501423 neighbor of COX4 -1.544427 uncharacterized bone marrow protein BM040
949988	-1.5437326 Homo sapiens mRNA; cDNA DKFZp586E1124 (from clone DKFZp586E1124); complete cds

Ally DKI: 48377200430

- 161 -

122212	-1.5433392 fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-
133213	specific)
	-1.5423907 carbonic anhydrase VB, mitochondrial
	-1.5372729 ESTs
	-1.5341302 Ris -1.5333626 baculoviral IAP repeat-containing 3
	-1.5304604 ESTs, Moderately similar to A47582 B-cell growth factor
	precursor [H.sapiens]
511850	-1.5294752 proteasome (prosome, macropain) 26S subunit, ATPase, 1
489489	-1.5169076 lamin B receptor
	-1.5154306 topoisomerase (DNA) II alpha (170kD)
	-1.5136459 N-terminal kinase-like
	-1.5066053 kallikrein 6 (neurosin, zyme) -1.506168 lymphocyte-specific protein tyrosine kinase
	-1.5060386 DKFZP434H132 protein -1.5058799 proteasome (prosome, macropain) subunit, beta type, 2
101220	-1.5050755 proteasome (prosome, macropair) suburit, bota typo, 2
	-1.5053827 ESTs
	-1.5041978 ESTs -1.5000358 ESTs, Weakly similar to ALU1_HUMAN ALU SUBFAMILY J
740103	SEQUENCE CONTAMINATION WARNING ENTRY
	[H.sapiens]
1466621	-1.4998321 ATPase, Ca++ transporting, type 2C, member 1
	1 10751 gamma glutamyl hydrologo (gamiugaga
809588	-1.49754 gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase)
813707	-1.4946872 regulator of G-protein signalling 16
188335	-1.4895328 egf-like module containing, mucin-like, hormone receptor-like
4.400460	sequence 2
1493160	-1.4851884 small inducible cytokine subfamily B (Cys-X-Cys), member 10
531886	-1.4842053 Homo sapiens clone FLB3344 PRO0845 mRNA, complete cds
753428	-1.4835152 Homo sapiens, clone IMAGE:3542597, mRNA, partial cds
897731	-1.4833877 latrophilin
·	-1.4811859 ETAA16 protein
	-1.4755682 glutathione S-transferase A3
712139	-1.4735772 ADP-ribosylation factor-like 7

785368 -1.4680554 PDZ-binding kinase; T-cell originated protein kinase 825606 -1.4667088 kinesin-like 1 531319 -1.4659871 serine/threonine kinase 12 66406 -1.4641179 hypothetical protein DKFZp762E1312 470124 -1.4635711 RAD1 (S. pombe) homolog

Example IX: Genes for discriminating between IDC Grade I and Grade III

As shown in Table 8 below, 300 genes were identified as being able to discriminate between two grades of IDC.

Table 8

CloneID	Weight Description
1706635	3.279305 bone gamma-carboxyglutamate (gla) protein (osteocalcin)
666138	3.1366533 hypothetical protein DKFZp761J1523
795382	3.0005724 Rap1 guanine-nucleotide-exchange factor directly activated by cAMP
364865	2.8512705 hypothetical protein FLJ21062
1500542	2.8021264 regulator of G-protein signalling 11
270127	2.7455118
588262	2.7127609 Homo sapiens, Similar to RIKEN cDNA 2600001A11 gene, clone MGC:9907 IMAGE:3870073, mRNA, complete cds
277266	2.5004627 Homo sapiens, clone IMAGE:3625550, mRNA, partial cds
2090129	2.4882736 chromobox homolog 2 (Drosophila Pc class)
325583	2.4558352 EST
358151	2.4309122 zinc finger protein 33a (KOX 31)
786675	2.3877233 epididymis-specific, whey-acidic protein type, four-disulfide core; putative ovarian carcinoma marker
854763	2.378956 Homo sapiens cDNA FLJ11341 fis, clone PLACE1010786
1592976	2.3417116 microphthalmia-associated transcription factor
sd-71385	

- 163 -

1562231 767176	2.286418 SET binding protein 1 2.2472282 tumor necrosis factor (ligand) superfamily, member 13
784178	2.2026739 Homo sapiens mRNA; cDNA DKFZp586M0723 (from clone DKFZp586M0723)
811162	2.1926501 fibromodulin
	2.1886432 laminin, beta 2 (laminin S)
754429	
	KIAA0512 [H.sapiens]
214205	2.1127961 Homo sapiens, clone MGC:17687 IMAGE:3865868, mRNA, complete cds
61061	2.1046094 hypothetical protein FLJ20585
344959	2.0756965 gene for serine/threonine protein kinase
814815	2.0694714 plakophilin 4
262804	2.0673444 hypothetical protein MGC2941
1455566	2.0489061 adenosine A3 receptor
1469149	1.9778151 Homo sapiens clone 24606 mRNA sequence
358217	1.9703763 glypican 4
206217	1.9595484 nuclear receptor subfamily 1, group H, member 3
LOOLII	1.0000 to 1 musical rocoptor cubiality 1, group 11, montos
261609	1.958083 ESTs, Weakly similar to S65657 alpha-1C-adrenergic receptor splice form 2 [H.sapiens]
197525	1.9550731 flavin containing monooxygenase 5
857640	1.9532398 collagen, type VI, alpha 2
812143	1.9469226 fibronectin leucine rich transmembrane protein 3
898222	1.9409805 Homo sapiens clone 24418 mRNA sequence
418129	1.9385868 nuclear mitotic apparatus protein 1
2021882	1.9213983 sodium channel, nonvoltage-gated 1, delta
293819	1.919948 oxidoreductase UCPA
203003	1.8989675 non-metastatic cells 4, protein expressed in
705274	1.8986548 diacylglycerol kinase, delta (130kD)
124922	1.8975916 KRAB-zinc finger protein SZF1-1
2505310	1.8859615 calcium/calmodulin-dependent protein kinase l
1492238	1.8795818 HSPC003 protein
810358	1.8732889 acyl-Coenzyme A dehydrogenase, very long chain

- 164 -

2391494 1592530	1.8698169 ephrin-A4 1.8669954 mammalian inositol hexakisphosphate kinase 2
810671 2108048 730036 810741 45578 647397 767495	 1.8659671 hypothetical protein FLJ22269 1.8648249 DNB5 1.8564918 Mad4 homolog 1.831265 GABA(A) receptor-associated protein 1.8274273 mitogen-activated protein kinase kinase 6 1.8263711 ESTs 1.8149096 GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome) 1.8117146 Homo sapiens mRNA; cDNA DKFZp586P1124 (from clone DKFZp586P1124)
811848 186301	1.8106436 hypothetical protein 1.8021505 Homo sapiens cDNA FLJ12924 fis, clone NT2RP2004709
366526	1.7836259 ESTs, Weakly similar to ALU5_HUMAN ALU SUBFAMILY SC SEQUENCE CONTAMINATION WARNING ENTRY [H.sapiens]
813154 85195	1.7815662 nuclear factor I/A 1.778695 growth arrest and DNA-damage-inducible, gamma
2460159 504959	1.7730834 tyrosine kinase, non-receptor, 1 1.7723846 Homo sapiens mRNA; cDNA DKFZp586G0321 (from clone DKFZp586G0321)
742094 256619 726699	1.7684813 hypothetical protein FLJ20950 1.7658619 hydroxysteroid (17-beta) dehydrogenase 7 1.7594888 ESTs, Weakly similar to AAB47496 NG5 [H.sapiens]
2017144 74070 1762111	1.7514699 CGI-41 protein1.7336683 endosulfine alpha1.7236006 natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
795750	1.7116475 Homo sapiens clone 25056 mRNA sequence
2019750 2325804	,

- 165 -

279720	1.693594 ESTs, Moderately similar to A47582 B-cell growth factor precursor [H.sapiens]
132857	1.6875688 Homo sapiens mRNA; cDNA DKFZp586N1323 (from clone DKFZp586N1323)
1898619 681992	1.684954 hypothetical protein MGC15737 1.6802347 Homo sapiens cDNA FLJ13384 fis, clone PLACE1001062, highly similar to Homo sapiens mRNA for lysine-ketoglutarate reductase/saccharopine dehydrogenase
85450	1.6753438 acyl-Coenzyme A oxidase 2, branched chain
51218 1925280	1.6748931 ESTs 1.6563658 homologous to yeast nitrogen permease (candidate tumor suppressor)
250883 172783 208387 703964 298231	1.6504115 ubiquitin-activating enzyme E1-like 1.6502064 hypothetical protein FLJ10390 1.6498608 KIAA1407 protein 1.6452497 inositol polyphosphate phosphatase-like 1 1.6428171 gamma-aminobutyric acid (GABA) B receptor, 1
277848 669359	1.6407233 ADP-ribosylation factor 6 1.6386236 Homo sapiens clone 24405 mRNA sequence
321455	1.6327309 Homo sapiens, Similar to RIKEN cDNA 1110002C08 gene, clone MGC:9564 IMAGE:3872267, mRNA, complete cds
796152	1.6295159 Homo sapiens cDNA FLJ11685 fis, clone HEMBA1004934
502782 360778 950574 788334 782497	1.614818 RAN binding protein 3 1.6091782 1.606032 H3 histone, family 3B (H3.3B) 1.5816572 mitochondrial ribosomal protein L23 1.5767626 Homo sapiens, clone IMAGE:3010666, mRNA, partial cds
1733262 342181 1632248	1.5656438 BLu protein 1.5642436 B-cell CLL/lymphoma 2 1.5590794 Homo sapiens cDNA FLJ14181 fis, clone NT2RP2004300
1526826 145132 183062	1.5520317 mannose-P-dolichol utilization defect 1

- 166 -

823663	1.5337257 fragile X mental retardation, autosomal homolog 2
190059	1.5258594 guanine nucleotide binding protein (G protein), gamma 7
111721 840882 1902764	1.5045285 insulin induced protein 2 1.5039692 nucleotide binding protein 1.5037016 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
414999	1.5021506 ets variant gene 4 (E1A enhancer-binding protein, E1AF)
1636523	1.4948923 glutathione S-transferase subunit 13 homolog
594683 1916575	1.4862053 ESTs 1.4825298 BCL2-interacting killer (apoptosis-inducing)
1456937	1.4730662 oviductal glycoprotein 1, 120kD (mucin 9, oviductin)
25274 795288	1.464238 g20 protein 1.4625618 ubiquitin specific protease 4 (proto-oncogene)
1569418	1.4599089 Homo sapiens cDNA FLJ11385 fis, clone HEMBA1000520
753700 1691237 741891 1493383	 1.4522717 Ras-related GTP-binding protein 1.4516493 ESTs 1.450795 RAB2, member RAS oncogene family-like 1.4468163 Homo sapiens mRNA; cDNA DKFZp434H2418 (from clone DKFZp434H2418)
1675273 293916 39600 1573087 839796	1.445145 RAR-related orphan receptor C 1.4265341 FKBP-associated protein 1.4224626 adenylate kinase 5 1.4200341 KIAA0592 protein 1.4114662 candidate tumor suppressor p33 ING1 homolog
296123	1.4057088 Homo sapiens PRO1851 mRNA, complete cds
727263	1.4046408 heterogeneous nuclear ribonucleoprotein U (scaffold
265045	attachment factor A) 1.4041143 Homo sapiens mRNA; cDNA DKFZp586B0918 (from clone DKFZp586B0918)
869450 714472	1.4034983 ribosomal protein L11 1.4006155 KIAA0397 gene product

- 167 -

825296	1.3963737 low density lipoprotein receptor defect C complementing
753301	1.3962897 carcinoembryonic antigen-related cell adhesion molecule 1
	(biliary glycoprotein)
700527	1.394937 glutaredoxin (thioltransferase)
811565	1.3909974 KIAA1694 protein
1630990	1.3843882 ribosomal protein L29
70749	1.3810753 Homo sapiens cDNA: FLJ21874 fis, clone HEP02488
814826	1.3785178 ESTs
175103	1.376581 cadherin, EGF LAG seven-pass G-type receptor 2, flamingo
045000	(Drosophila) homolog
215000	1.3677098 vasoactive intestinal peptide receptor 1
810331	1.3656069 quiescin Q6
1681421 502198	1.3645145 EGF-like-domain, multiple 3 1.3619124 protein phosphatase 1, regulatory (inhibitor) subunit 5
302190	1.30 19 124 protein priospiratase 1, regulatory (inhibitor) suburit 3
825365	1.361275 hypothetical protein FLJ21919
1557047	1.3582677 thrombospondin 3
2067500	1.3579293 Z-band alternatively spliced PDZ-motif
490615	1.3566637 tubulin, gamma 2
743880	1.3528093 KIAA0263 gene product
812099	1.3444147 RNA binding motif protein 5
868652	1.3432331 complement component 4B
120138	1.3384804 J domain containing protein 1
156363	1.3358314 hypothetical protein FLJ12934
813584	1.3327194 p53 regulated PA26 nuclear protein
726703	1.3247883 Homo sapiens clone 23736 mRNA sequence
809507	1.3225829 hypothetical protein FLJ20568
2018423	1.3212314 death-associated protein kinase 2
292806	1.3201283 chromosome segregation 1 (yeast homolog)-like
741977	1.3200635 B-factor, properdin
610326	-4.5776738
322494	-3.6341126 core-binding factor, beta subunit
	-3.6328144 karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
825659	-3.6247426 N-myc downstream regulated
796694	-3.5038212 baculoviral IAP repeat-containing 5 (survivin)

- 168 -

149355	-3.4959791 translocating chain-associating membrane protein
814270	-3.3246381 polymyositis/scleroderma autoantigen 1 (75kD)
884425	-3.3113482 chaperonin containing TCP1, subunit 5 (epsilon)
1874367	-3.2390912 small inducible cytokine subfamily A (Cys-Cys), member 20
742707	-3.2093502 ESTs, Weakly similar to MUC2_HUMAN MUCIN 2 PRECURSOR [H.sapiens]
280375	-3.1386611 mitochondrial ribosomal protein L15 -3.110486 PRO2000 protein -3.0906181 electron-transfer-flavoprotein, beta polypeptide
	-3.0561472 ubiquitin specific protease 10
624867	-3.0517117 KIAA0948 protein -2.9688171 hypothetical protein FLJ20186 -2.9361687 uncharacterized hypothalamus protein HT010
1476053	-2.9129535 RAD51 (S. cerevisiae) homolog (E coli RecA homolog)
769921	-2.8913426 hypothetical protein MGC5585 -2.8415969 ubiquitin carrier protein E2-C -2.8216808 Homo sapiens mRNA; cDNA DKFZp762H106 (from clone DKFZp762H106)
	-2.7995652 hypothetical protein FLJ13154 -2.7793137 hypothetical protein dJ616B8.3
815556	-2.7693 hypothetical protein FLJ10430
	-2.7538365 SUMO-1 activating enzyme subunit 1 -2.7448687 ATPase, Ca++ transporting, type 2C, member 1
770675	-2.6929924 Homo sapiens cDNA: FLJ21323 fis, clone COL02374
	-2.6909833 RAB2, member RAS oncogene family -2.6845343 ESTs, Weakly similar to S13495 pregnancy zone protein [H.sapiens]
	-2.6813265 KIAA0174 gene product
	-2.6569485 KIAA1036 protein
	-2.6509707 ESTs -2.6361347 brain protein I3
842818	-2.63282 lysyl-tRNA synthetase
1553065	
sd-71385	

- 169 -

136722	-2.6269431 ATPase, Na+/K+ transporting, beta 3 polypeptide
854581 951241 292936	-2.6261051 hypothetical protein FLJ10339 -2.6159344 transcription factor 4 -2.5987959 clone HQ0310 PRO0310p1 -2.5940369 hypothetical protein FLJ10468 -2.569753 budding uninhibited by benzimidazoles 1 (yeast homolog)
377368	-2.5587562 hypothetical protein FLJ10511 -2.5495557 cell death regulator aven -2.5448438 -2.539248 proteasome (prosome, macropain) subunit, beta type, 2
731223	-2.5364769 proteasome (prosome, macropain) subunit, beta type, 2
1660666 825470 1472719	-2.534682 carbonic anhydrase VB, mitochondrial -2.530053 topoisomerase (DNA) II alpha (170kD) -2.526978 SMT3 (suppressor of mif two 3, yeast) homolog 1
869375	-2.5249164 isocitrate dehydrogenase 2 (NADP+), mitochondrial
	-2.5097213 exostoses (multiple) 2 -2.4998247 tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain
	 -2.488461 ribonucleotide reductase M2 polypeptide -2.4843808 methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate cyclohydrolase
50884	-2.4377483 dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2
1474424	-2.4345879 Homo sapiens cDNA FLJ12758 fis, clone NT2RP2001328
	-2.4324065 glycogenin -2.4311609 cyclin-dependent kinase inhibitor 3 (CDK2-associated dual specificity phosphatase)
610326 284004	-2.4310983 hypothetical protein FLJ14991 -2.4214624 -2.4185183 ESTs -2.3963227 S100 calcium-binding protein A10 (annexin II ligand, calpactin I, light polypeptide (p11))

- 170 -

128711	-2.3891503 anillin (Drosophila Scraps homolog), actin binding protein
1582738	-2.3882015 uncharacterized bone marrow protein BM040
1915867	-2.3829702 Homo sapiens cDNA: FLJ21086 fis, clone CAS03272
462961	-2.3765311 ecotropic viral integration site 2A -2.3685047 dihydrofolate reductase -2.3682586 transforming, acidic coiled-coil containing protein 3
129294	-2.3605995 vanin 1 -2.3507956 ESTs -2.3342142 gamma-glutamyl hydrolase (conjugase, folylpolygammaglutamyl hydrolase) -2.333814 ESTs, Weakly similar to 2004399A chromosomal protein
703707 2017415	[H.sapiens] -2.3166739 chromosome 7 open reading frame 2 -2.2865473 aspartate beta-hydroxylase -2.2832169 centromere protein A (17kD) -2.2797717 Human proteinase activated receptor-2 mRNA, 3'UTR
	-2.2761946 3'(2'), 5'-bisphosphate nucleotidase 1 -2.2753496 fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific)
2009574	-2.2752004 Purkinje cell protein 4 -2.2646007 T brachyury (mouse) homolog -2.2563379 serine/threonine kinase 17b (apoptosis-inducing)
78869	-2.2539078 cell membrane glycoprotein, 110000M(r) (surface antigen)
	-2.2513499 sterol-C4-methyl oxidase-like -2.2489394 PDZ-binding kinase; T-cell originated protein kinase
	-2.2489064 ESTs -2.2481741 ubiquitin-conjugating enzyme E2E 2 (homologous to yeast UBC4/5)
781472	-2.2390098 Tax1 (human T-cell leukemia virus type I) binding protein 1
	-2.2375228 delta (Drosophila)-like 3 -2.2354975 minichromosome maintenance deficient (mis5, S. pombe) 6
	-2.2325695 -2.2308926 ESTs

sd-71385

753320 486626 1505038	-2.2280935 epithelial V-like antigen 1 -2.2104141 hypothetical protein FLJ20533 -2.2095389 ESTs -2.2060272 hypothetical protein FLJ20171 -2.1992378 nuclear receptor co-repressor/HDAC3 complex subunit
503671	-2.1939286 Homo sapiens cDNA FLJ14368 fis, clone HEMBA1001122
712139 471196	-2.1885269 -2.1839319 ADP-ribosylation factor-like 7 -2.1797647 integral membrane protein 3 -2.1781545 guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
183556	-2.1734918 gap junction protein, alpha 4, 37kD (connexin 37)
809557	-2.1667294 minichromosome maintenance deficient (S. cerevisiae) 3
610326 1600239 1049291	-2.1633594 hypothetical protein MGC12992 -2.1602202 HSPC037 protein -2.1593791 olfactory receptor, family 7, subfamily E, member 47 pseudogene
	-2.1475459 ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13)
950897	-2.1419057 Homo śapiens mRNA; cDNA DKFZp586G1922 (from clone DKFZp586G1922)
712577	-2.1411578 holocytochrome c synthase (cytochrome c heme-lyase)
241348	-2.1400285 UDP-galactose transporter related -2.1301572 prenylcysteine lyase -2.1259223 actin related protein 2/3 complex, subunit 1A (41 kD)
795498 82710 1869201 1694526	-2.1206632 lysophospholipase l -2.1190094 putative transmembrane protein -2.1184513 glutathione S-transferase A2 -2.1135906 hypothetical protein MGC2745 -2.1126121 hypothetical protein FLJ11029 -2.1072985 proteasome (prosome, macropain) 26S subunit, non-ATPase,
811590	-2.1065234 metallothionein 1H -2.1050783 hypothetical protein FLJ11100 -2.1050163 pleiomorphic adenoma gene-like 1

- 172 -

	-2.0965219 KIAA0175 gene product -2.0954489 ESTs, Weakly similar to A46010 X-linked retinopathy protein [H.sapiens]
	-2.0949091 ESTs -2.0906355 mitogen-activated protein kinase kinase kinase kinase 4
	-2.0896786 hypothetical protein MGC12992
	-2.0828168 ESTs
	-2.0796998 hypothetical protein MGC2577
1416055	-2.0725881 extra spindle poles, S. cerevisiae, homolog of
1626297	-2.0656173 hypothetical protein FLJ20509
852829	-2.0608067 karyopherin alpha 3 (importin alpha 4)
840511	-2.0554449 vimentin
	-2.0519206 neurochondrin
	-2.0506628 KIAA0830 protein
812276	-2.0458249 synuclein, alpha (non A4 component of amyloid precursor)
306841	-2.0449642 T cell receptor beta locus
	-2.0437672 ESTs, Weakly similar to 1709359A dopamine D4 receptor
	[H.sapiens]
	-2.0409259 ribonucleotide reductase M2 polypeptide
486179	-2.0380168 Homo sapiens cDNA FLJ10205 fis, clone HEMBA1004954
376316	-2.0218598 wee1+ (S. pombe) homolog
37671	-2.0190035 hypothetical protein FLJ21610
629944	-2.0166696 myosin VB
	-2.0133834 ESTs
	-2.0067977 hypothetical protein FLJ10540
	-1.9957389 hypothetical protein FLJ13352
810711	-1.9920785 stearoyl-CoA desaturase (delta-9-desaturase)
263790	-1.9904129 isocitrate dehydrogenase 3 (NAD+) alpha
	-1.9893582 hypothetical protein PRO1068
	-1.9879196 KIAA0286 protein
51773	-1.9875155 hypothetical protein MGC3077

Example X: Crossvalidation

Atty Dkt: 485772004300

The following table shows the results of crossvalidation analysis (as described in Example I above) of various pair-wise comparisons. The two members of the pairwise comparison are indicated as "Class 1" and "Class 2" with the number of samples analyzed indicated under "N". The number of genes used to predict is indicated, along with the accuracy (in percent) for each combination. "FP" and "FN" refer to "false positive" and "false negative", respectively, as incorrectly identified for each of the two classes.

- 173 -

Olass 1	ar .	Class 2		Genes	Accuracy	- (Cl	ass I	Class	2
-Name	N	Name	N			AFIR:	III FN		FN
Normal	28	Abnormal -	57	850	99	0	1	7.3	• • • • • • • • • • • • • • • • • • • •
Normal	28	ADH -	-7	600			0	0	0
Normal	28	DCIS	28	1300	100	0	0	0	0
ADH	7	DCIS	28	350	97	0	1	1	0
ADH	7	DCIS	28	10	97	0	1	1	0
N+ADH	36	DOISTIDE	49	400	98	1	1	1:1	1
DCIS-I	44. 7 ,	DCIS-III	9	300		0	0	0	. 0
IDC-I	4	IDC-III	8	300	100	0	0	0	0

References:

DeRisi, J., et al., Use of a cDNA microarray to analyse gene expression patterns in human cancer, Nature Genetics, (1996) 14:457-460.

Hedenfalk, I., et al., *Gene-Expression Profiles In Heredity Breast Cancer*, The New England Journal of Medicine, (February 22, 2001) 344:8:539-548.

Golub, T. R., et al., Molecular Classification of Cancer: Class Discovery and Class Prediction by Gene Expression Monitoring, Science, (October 15, 1999) 286:531-537.

Atty Dkt: 485772004300

- 174 -

Perou, Charles M., et al., *Molecular portraits of human breast tumours*, Nature, (August 17, 2000) 406:747-752.

Garber, Mitchell E., et al., *Diversity of gene expression in adenocarcinoma of the lung*, Proc. Natl. Acad. Sci. USA, (November 20, 2001) 98:24:13784-13789.

Perou, Charles M., et al., Distinctive gene expression patterns in human mammary epithelial cells and breast cancers, Proc. Natl. Acad. Sci. USA, (August 1999) 96:9212-9217.

Sgrio, Dennis C., et al., In Vivo Gene Expression Profile Analysis of Human Breast Cancer Progression, Cancer Research, (November 15, 1999) 59:5656-5661.

Sorlie, Therese, et al., Gene expression patterns of breast carcinomas distinguish tumor subclasses with clinical implications, Proc. Natl. Acad. Sci., (September 11, 2001) 98:19:10869-10874.

Alizadeh, Ash A., et al., Distinct types of diffuse large B-cell lymphoma identified by gene expression profiling, Nature, (February 3, 2000) 403:503-511.

Bittner, M., et al., Molecular classification of cutaneous malignant melanoma by gene expression profiling, Nature (August 3, 2000) 406:536-540.

West, Mike, et al., *Predicting the clinical status of human breast cancer by using gene expression profiles*, Proc. Natl. Acad. Sci., (September 25, 2001) 98:20:11462-11467.

- 175 -

All references cited herein, including patents, patent applications, and publications, are hereby incorporated by reference in their entireties, whether previously specifically incorporated or not.

Having now fully described this invention, it will be appreciated by those skilled in the art that the same can be performed within a wide range of equivalent parameters, concentrations, and conditions without departing from the spirit and scope of the invention and without undue experimentation.

While this invention has been described in connection with specific embodiments thereof, it will be understood that it is capable of further modifications. This application is intended to cover any variations, uses, or adaptations of the invention following, in general, the principles of the invention and including such departures from the present disclosure as come within known or customary practice within the art to which the invention pertains and as may be applied to the essential features hereinbefore set forth.